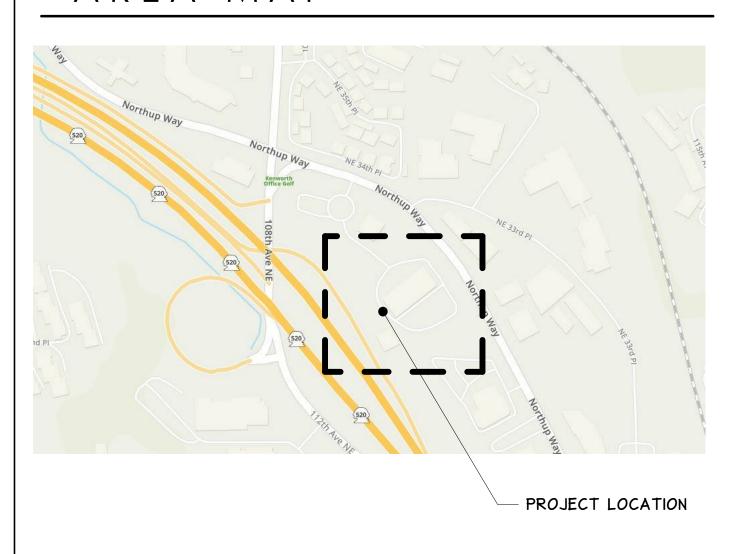
# NORTHUP PREWASH RETROFIT NPDES - NWR

## AREA MAP



# SYMBOLS

GRID LINE DESIGNATION = center of structure

= face of structure = existing F.O.S. | F.O.S. Q1

INTERIOR ELEVATION ELEVATION NUMBER

SHEET NUMBER EXTERIOR ELEVATION

SHEET NUMBER BUILDING SECTION SECTION NUMBER

ELEVATION NUMBER

WALL SECTION SECTION LETTER

SHEET NUMBER

SHEET NUMBER DETAIL

> DETAIL NUMBER SHEET NUMBER

REVISION REVISION

# ZONING INFORMATION

GOVERNING CODE

CITY OF ----- MUNICIPAL CODE TITLE ## - ZONING

PARCEL NUMBER

ZONING CHAPTER ##

X - XXXX

LAND USE CHAPTER ##

PERMIT USES

XXX

B - BUSINESS

# GENERAL NOTES

- ALL WORK SHALL CONFORM TO APPLICABLE BUILDING CODES AND ORDINANCES. WHERE MORE THAN ONE CODE OR ORDINANCE CONFLICT WITH EACH OTHER, THE MORE RESTRICTIVE CODE SHALL GOVERN.
- 2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AT THE SITE AND SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY UNCERTAINTIES OR DISCREPANCIES WITH DRAWINGS.
- 3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES AT THE SITE, PROTECT THEM FROM DAMAGE AND REPORT ANY DISCREPANCIES WITH DRAWINGS.
- 4. THE CONTRACTOR SHALL ENSURE THE HEALTH AND SAFETY OF THE PUBLIC AND ALL WHO ENTER THE WORK DURING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE THE WORK OF SUBCONTRACTORS AND ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION.
- 6. DRAWINGS SHALL NOT BE SCALED. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
- ALL CONSTRUCTION SHALL MEET OR EXCEED LOCAL INDUSTRY STANDARDS. DETAILS ARE PROVIDED TO INDICATE MINIMUM QUALITY AND TO GIVE STANDARDS OF CONSTRUCTION. IF A CONDITION IS NOT SPECIFICALLY DETAILED, SUBMIT A SUGGESTED DETAIL FOR GUIDANCE AND APPROVAL.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION OF MECHANICAL AND ELECTRICAL WORK AS REQUIRED TO ACCOMMODATE CONSTRUCTION AND SHALL PROVIDE ALL NECESSARY SHAFTS, OPENINGS, BASES AND STRUCTURAL SUPPORT FOR DUCTS, PIPES, CONDUITS AND EQUIPMENT.
- 9. DIMENSIONS ON PLANS ARE TO FACE OF STUD, CENTER OF COLUMN, CENTER OF MULLION, FACE OF CONCRETE, FACE OF MASONRY, FACE OF FRAME OR FACE OF ROUGH OPENING, ÚNLESS OTHERWISE I
- 10. THE CONCTRACTOR SHALL COORDINATE ALL LABORATORY TESTING AND INSPECTION REQUIRED FOR ALL EARTHWORK COMPACTION, SITE WELDING, HIGH STRENGTH BOLTING AND ALL STRUCTURAL CONCRETE. OWNER SHALL HIRE AN INDEPENDENT TESTING LAB FOR ALL CODE REQUIRED TESTING.
- II. DEMOLISH ALL EXISTING COMPONENTS NECESSARY TO CONSTRUCT WORK. CAP ALL EXISTING UTILITIES (PLUMBING, ELECTRICAL AND MECHANICAL) BEHIND WALLS FLOORS, ETC.

# PROJECT INFORMATION

SITE AREA

SQUARE FOOTAGE

172,500 SQ FT

BUILDING AREA (NEW CONSTRUCTION) FIRST FLOOR

1,533 SQ FT

PARKING PROVIDED

SEE SHEET G002.

# PROJECT DESCRIPTION

THE PROJECT CONSTRUCTS OF A NEW, COVERED VEHICLE WASH FACILITY LOCATED AT THE EXISTING WSDOT NORTHUP MAINTENANCE FACILITY. THE PROJECT IS LOCATED DIRECTLY ADJACENT TO THE EXISTING VEHICLE MAINTENANCE SHOP ON THE SW SIDE OF THAT STRUCTURE. THE FACILITY CONSISTS OF A CONCRETE WASH PAD COVERED BY AN ALL- STEEL CANOPY AS SHOWN IN THE DOCUMENTS. THE PURPOSE OF THE FACILITY IS TO PROVIDE HOSE END AND UNDER CHASSIS, PRE-WASH RINSING OF WSDOT

# CODE INFORMATION

GOVERNING CODE

WASHINGTON STATE AMENDMENTS 2018 WASHINGTON STATE ENERGY CODE (WSEC)

OCCUPANCY CLASSIFICATION IBC CHAPTER 3

CONSTRUCTION TYPE IBC TABLE 503

MAXIMUM ALLOWABLE BUILDING HEIGHT IBC TABLE 503

MAXIMUM ALLOWABLE BUILDING STORIES

(MAIN OCCUPANCY B/S-2 PER 508.2.3)

MAXIMUM ALLOWABLE FLOOR AREA IBC TABLE 503 FIRST FLOOR

EXTERIOR WALL FIRE RESISTANCE RATING IBC (TABLE 602)

FIRE SEPARATION DISTANCE IBC (TABLE 705.2)

UNPROTECTED OPENINGS

**PARAPETS** 

IBC 705.II

IBC (TABLE 705.8)

AUTOMATIC FIRE SPRINKLER SYSTEM

FIRE ALARM AND DETECTION SYSTEM IBC CHAPTER 9

2018 INTERNATIONAL BUILDING CODE (IBC) WASHINGTON STATE AMENDMENTS

2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)

VEHICLE WASH

VB (NON-FIRE RATED) (COMBUSTIBLE CONSTRUCTION)

2018 UNIFORM PLUMBING CODE (UPC)

2 STORIES

40 FEET

9,000 SQ FT

BUILDING SEPARATION PROVIDED (7'-0"), ROOF OVERHANG PROTECTION SEPARATION PROVIDED 46".

UNPROTECTED OPENINGS IN AREA ADJACENT TO NEW STRUCTURE LIMITED TO 6% OF WALL AREA.

PARAPETS NOT REQUIRED PER EXEMPTION #3 -BUILDING IS ENTIRELY OF NON-COMBUSTIBLE CONSTRUCTION WITH CLASS B ROOFING.

I-HOUR UL DESIGN BXUV.U050 (SEE A401)

NOT PROVIDED

NOT PROVIDED

# SHEET INDEX

GENERAL DRAWINGS

COVER SHEET ARCHITECTURAL SITE PLAN

CIVIL DRAWINGS

C106

SITE PLAN B EXISTING CONDITIONS COB STANDARD NOTES TESC PLAN C103 TESC NOTES AND DETAILS C104 GRADING AND PAVEMENT PLAN

STORM PLAN AND PROFILE

WATER AND SEWER PLAN AND

ARCHITECTURAL DRAWINGS

FLOOR PLAN ROOF PLAN REFLECTED CEILING PLAN A300 EXTERIOR ELEVATIONS A400 BUILDING SECTIONS A401 BUILDING SECTION SITE DETAILS A800

SITE DETAILS

S511

S512

S513

GENERAL NOTES 5002 GENERAL NOTES 5003 SPECIAL INSPECTION SPECIAL INSPECTION

STRUCTURAL DRAWINGS

5004 FOUNDATION PLAN IST FLOOR PLAN ROOF FRAMING PLAN

TRANSVERSE FRAME SECTIONS LONGITUDINAL FRAME SECTIONS TYPICAL CONCRETE DETAILS TYPICAL CONCRETE DETAILS TYPICAL CONCRETE DETAILS

CONCRETE FRAMING DETAILS

STEEL FRAMING DETAILS

STEEL FRAMING DETAILS

MECHANICAL DRAWINGS

M001 LEGENDS AND NOTES M201 FOUNDATION PLAN M301 PLUMBING PLAN M302 PLUMBING DETAILS

ELECTRICAL DRAWINGS

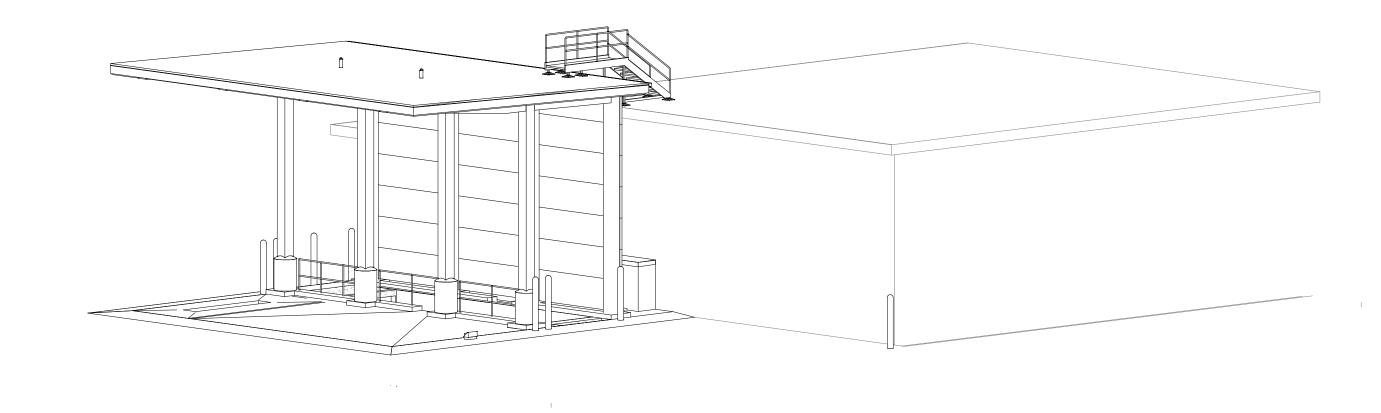
ABBREVIATIONS, LEGEND & GENERAL

ELECTRICAL SCHEDULES

ELECTRICAL SITE PLAN ELECTRICAL DEMOLITION SITE PLAN

E201 LIGHTING PLAN E301

POWER PLAN ONE-LINE RISER DIAGRAM



PROJECT ARCHITECT: LC region no. DRAWN BY: EA FEDERAL AND PROJECT NO. REVIEWED BY: LC 2/9/22 PERMIT SUBMITTAL JOB NO: a20-099 FCR NO: 2/9/22 AS-BUILT BY: **DESIGN NO:** DATE CONTRACT NO

C.O.S.





6021 12th street east tacoma, wa. 98424 tel: 253.922.9037 fax: 253.922.6499



NORTHUP PREWASH **RETROFIT NPDES - NWR** 

**COVER SHEET** 

G001

AS-BUILT BY:

# PROJECT INFORMATION

SITE AREA

SQUARE FOOTAGE 255,503 SQ FT (5.86 ACRES)

BUILDING AREA

EXISTING OFFICE BUILDING
EXISTING MAINTENANCE/SHOPS BUILDING 4,193 SQ FT 15,680 SQ FT 3,999 SQ FT 1,533 SQ FT EXISTING EQUIPMENT BUILDING EXISTING BUILDING TOTAL: <u>WITH NEW WASH BUILDING:</u> 23,872 SQ FT **25,405 SQ FT** 

1,533 SQ FT NEW / 23,872 SQ FT EXISTING = 6% CHANGE

LOT COVERAGE

25,405 / 191,627 = 13.25% (35% ALLOWED) LOT COVERAGE BY STRUCTURE: MAXIMUM HARD SURFACE COVERAGE: (HARD SURFACE INCLUDES ASPHALT, CONCRETE, BUILDINGS) 172,466 / 191,627 = 90.0% (85% ALLOWED)

NOTE: THIS PROJECT DOES NOT INCREASE THE HARD SURFACE AREA. EQUIPMENT BUILDING IS BEING CONSTRUCTED WHERE EXISTING ASPHALT PAVING IS INSTALLED.

IMPERVIOUS SURFACE COVERAGE: (IMPERVIOUS SURFACE INCLUDES ASPHALT, CONCRETE, BUILDINGS)

NOTE: THIS PROJECT DOES NOT INCREASE THE IMPERVIOUS SURFACE AREA. EQUIPMENT BUILDING IS BEING CONSTRUCTED WHERE EXISTING ASPHALT PAVING IS INSTALLED.

172,466 / 191,627 = 90% (60% ALLOWED)

PARKING PROVIDED

PERSONAL VEHICLE PARKING FOR BUILDING OCCUPANTS PROVIDED AT EXISTING ADMINISTRATION BUILDING LOCATED OUTSIDE FENCED IN MAINTENANCE YARD.

EXISTING OFFICE BUILDING (4,193 SQ FT)
OFFICE BUSINESS/GENERAL OFFICE 4:1000 RATIO

EXISTING MAINTENANCE/SHOPS BUILDING (15,680 SQ FT)

1,810 SQ FT - OFFICE BUSINESS/GENERAL OFFICE 4:1000 RATIO
10,870 SQ FT - MANUFACTURING/ASSEMBLY 1.5:1000 RATIO 3,000 SQ FT - WAREHOUSE 1.5:1000 RATIO

EXISTING STALLS REQUIRED: EXISTING STALLS PROVIDED: 17 STALLS REQUIRED 5 STALLS REQUIRED

17 STALLS REQUIRED

8 STALLS REQUIRED

47 STALLS REQUIRED 60 STALLS PROVIDED

53 STANDARD 2 ADA CAR I ADA VAN

ZONING

OLB (OFFICE / LIMITED BUILDING) SETBACK:SIDE YARD 30'-0" LUC 20.20.010: 10' REQUIRED

AVERAGE FINISHED GRADE

HEIGHT OF BUILDING

88.89' SEE SHEET A300

OFF-SITE STREAMS

THERE WILL BE NO DISTURBANCE OF OFF-SITE STREAMS.

# AVERAGE FINISH GRADE CALCULATION

NORTH SIDE FINISH GRADE	GRADE 60.33 FT 60.70 FT 61.24 FT 61.59 FT
AVERAGE GRADE	60.97 FT

SOUTH SIDE FINISH GRADE GRADE 62.00 FT 61.83 FT 61.66 FT 61.31 FT 61.70 FT

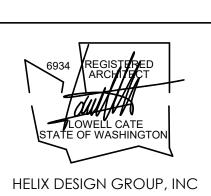
EAST SIDE FINISH GRADE	GRADE
TINOH GNADE	62.13 FT 61.89 FT 61.73 FT 61.59 FT
AVERAGE GRADE	61.84 FT

NORTH SIDE FINISH GRADE	GRADE 61.31 FT 60.98 FT 60.56 FT 60.33 FT
AVERAGE GRADE	60.80 FT

60.97 FT 61.70 FT 61.84 FT 60.80 FT NORTH SOUTH EAST WEST AVERAGE FINISH GRADE

DATE

	61.73 FT 61.59 FT
AVERAGE GRADE	61.84 FT
NORTH SIDE FINISH GRADE	GRADE
	61.31 FT 60.98 FT
	60.56 FT
	60.33 FT
AVEDACE CDADE	(0 0 0 ET



SITE PLAN





SALT / SAND STORAGE (E)



NE 33rd PL

NORTHUP PREWASH RETROFIT NPDES - NWR

G002

ARCHITECTURAL SITE PLAN

Helix

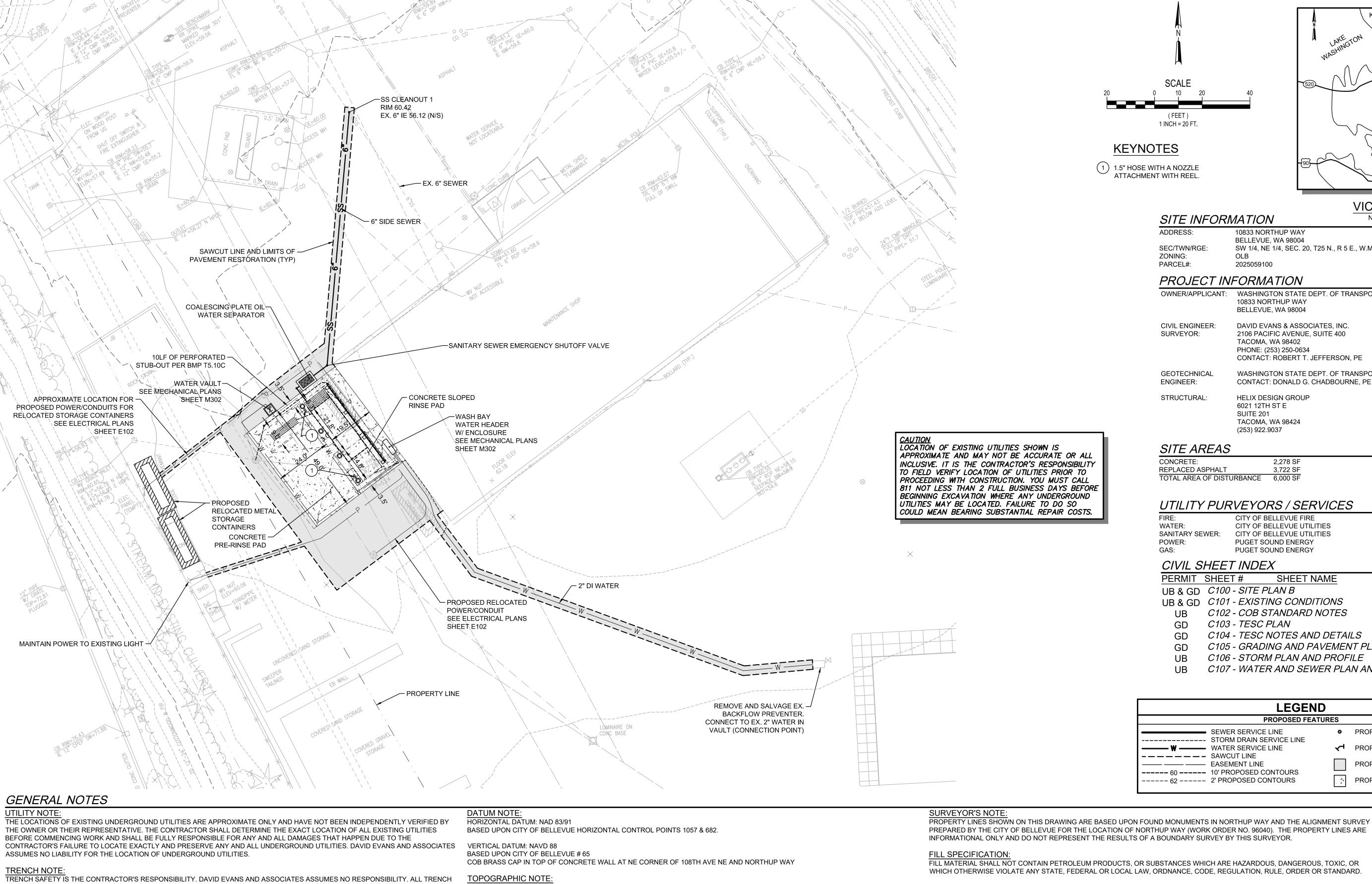
FUELING (E)

SAND STORAGE (E)

REGION NO. STATE: PROJECT ARCHITECT: LC DRAWN BY: EA FEDERAL AND PROJECT NO. REVIEWED BY: LC PERMIT SUBMITTAL JOB NO: FCR NO: 2/9/22 DESIGN NO:

BUILDING

PROJECT LOCATION



**BELLEVUE VICINTIY MAP** NOT TO SCALE

KIRKLAND

REDMOND

## SITE INFORMATION

10833 NORTHUP WAY

BELLEVUE, WA 98004

SEC/TWN/RGE: SW 1/4, NE 1/4, SEC. 20, T25 N., R 5 E., W.M. ZONING:

PARCEL#: 2025059100

## PROJECT INFORMATION

WASHINGTON STATE DEPT. OF TRANSPORTATION OWNER/APPLICANT: 10833 NORTHUP WAY

BELLEVUE, WA 98004

CIVIL ENGINEER: SURVEYOR:

1 INCH = 20 FT.

ADDRESS:

DAVID EVANS & ASSOCIATES, INC. 2106 PACIFIC AVENUE, SUITE 400

**TACOMA, WA 98402** PHONE: (253) 250-0634

CONTACT: ROBERT T. JEFFERSON, PE

GEOTECHNICAL WASHINGTON STATE DEPT. OF TRANSPORTATION

**ENGINEER:** CONTACT: DONALD G. CHADBOURNE, PE

STRUCTURAL HELIX DESIGN GROUP

6021 12TH ST E SUITE 201 TACOMA, WA 98424

(253) 922.9037

## SITE AREAS

CONCRETE: 2,278 SF REPLACED ASPHALT 3,722 SF TOTAL AREA OF DISTURBANCE 6,000 SF

## UTILITY PURVEYORS / SERVICES

CITY OF BELLEVUE FIRE

WATER: CITY OF BELLEVUE UTILITIES CITY OF BELLEVUE UTILITIES SANITARY SEWER: POWER: **PUGET SOUND ENERGY** 

PUGET SOUND ENERGY

## CIVIL SHEET INDEX

PERMIT SHEET# SHEET NAME

UB & GD C100 - SITE PLAN B

UB & GD C101 - EXISTING CONDITIONS

C102 - COB STANDARD NOTES

C103 - TESC PLAN

C104 - TESC NOTES AND DETAILS

C105 - GRADING AND PAVEMENT PLAN

C106 - STORM PLAN AND PROFILE C107 - WATER AND SEWER PLAN AND PROFILE

LEGEN	D	
PROPOSED FEAT	TURES	
SEWER SERVICE LINE STORM DRAIN SERVICE LINE	•	PROPOSED CLEANOUT (SD/SS)
WATER SERVICE LINE  SAWCUT LINE	Ϋ́	PROPOSED WATER BEND
EASEMENT LINE 60 10' PROPOSED CONTOURS		PROPOSED ASPHALT PAVEMEN
62 2' PROPOSED CONTOURS		PROPOSED CONCRETE

SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49.17 RCW

REVISION

THE TOPOGRAPHICAL DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED BY OTHERS. DAVID EVANS AND ASSOCIATES CANNOT ENSURE THE ACCURACY OF THAT INFORMATION AND IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS.

| REGION NO. 10 | STATE: WASH FEDERAL AID PROJECT NO.



Washington State Department of Transportation **HQ CAPITAL FACILITIES** 

# NORTHUP PREWASH RETROFIT NPDES-NWR

**UB PLANS** 

CITY OF BELLEVUE,

WA SITE PLAN B

C100

Know what's below.

Call before you dig.

PERMIT SET FIRST SUBMITTAL BID SET AS BUILT BY: MM/DD/UB

PROJECT ARCHITECT:

DRAWN BY: KMP

REVIEWED BY: TW

REVIEWED BY: RJ

8/2/21

2/9/22

DATE

DESIGN NO: DATE CONTRACT NO:

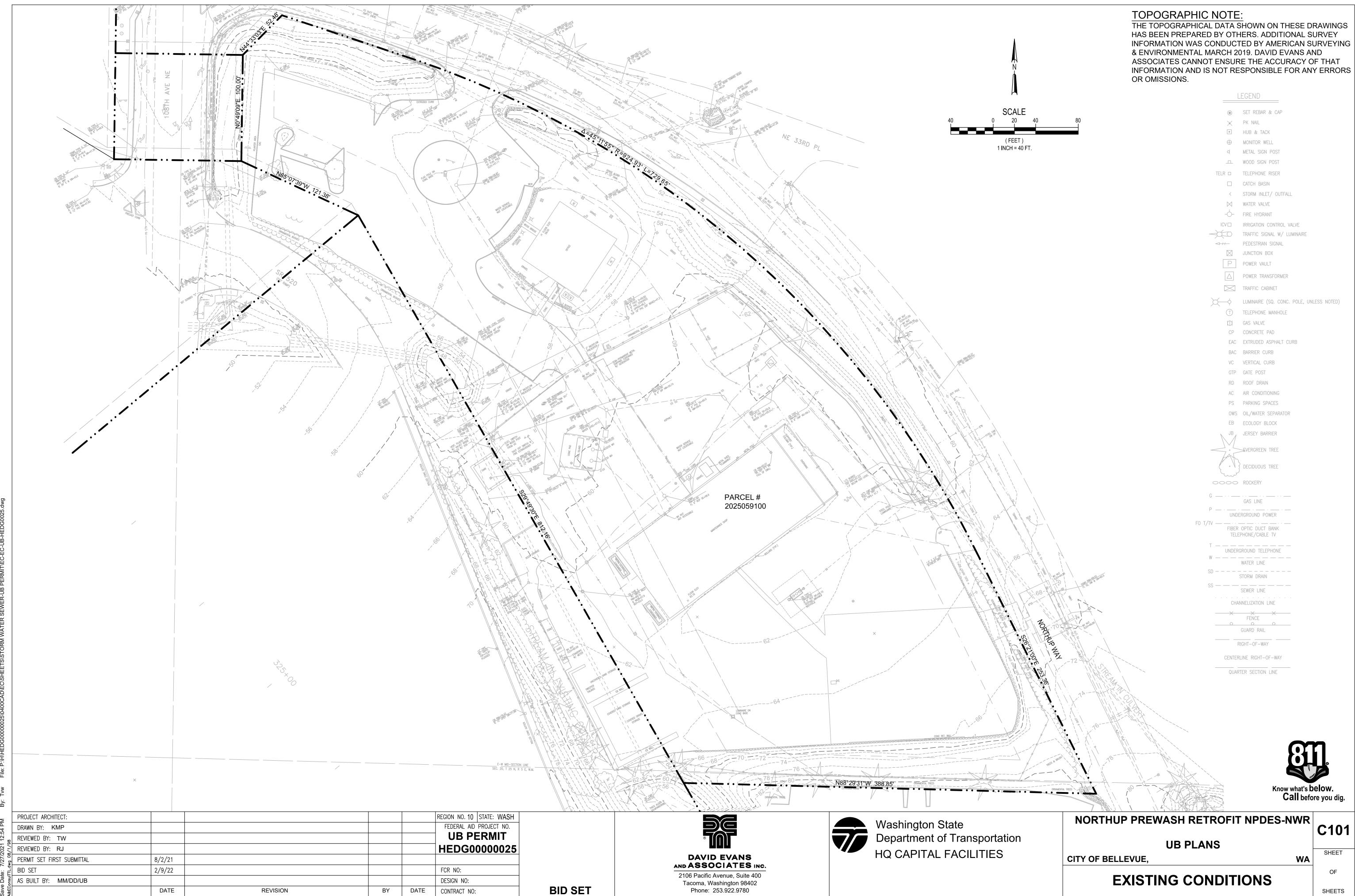
FCR NO:

**UB PERMIT** 

HEDG00000025

**BID SET** 

2106 Pacific Avenue, Suite 400 Tacoma, Washington 98402 Phone: 253.922.9780



- ENGINEERING STANDARDS AND THE DEVELOPER EXTENSION AGREEMENT.

  2. ALL PIPE SHALL BE DUCTILE IRON CLASS 52 UNLESS OTHERWISE SHOWN.

  3. ALL PIPE AND FITTINGS NOT TO BE DISINFECTED IN PLACE PER AWWA C651 SHALL BE SWABBED WITH 1% AVAILABLE CHLORINE SOLUTION PRIOR TO
- 4. THE NEW WATER MAIN SHALL BE CONNECTED TO THE EXISTING SYSTEM ONLY AFTER NEW MAIN IS PRESSURE TESTED, FLUSHED, DISINFECTED AND SATISFACTORY BACTERIOLOGICAL SAMPLE RESULTS ARE OBTAINED AND RECEIVED BY THE CITY'S INSPECTOR. SEE STANDARD DETAIL W-9.
- AFTER DISINFECTING THE WATER MAIN, DISPOSE OF CHLORINATED WATER BY DISCHARGING TO THE NEAREST OPERATING SANITARY SEWER.
   WATER MAIN SHUT-DOWNS SHALL BE COORDINATED WITH THE WATER OPERATIONS DIVISION FOR PREFERRED TIMING DURING FLOW CONTROL CONDITIONS. WATER MAIN SHUTDOWNS SHALL NOT BE SCHEDULED TO TAKE PLACE ON FRIDAYS, OR ON THE FIVE DAYS BEFORE NOR ONE DAY AFTER A CITY HOLIDAY, UNLESS OTHERWISE APPROVED BY THE UTILITY.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
- 8. DEFLECT THE WATER MAIN ABOVE OR BELOW EXISTING UTILITIES AS REQUIRED TO MAINTAIN 3 FT. MINIMUM COVER AND 12-INCH MINIMUM VERTICAL CLEARANCE BETWEEN UTILITIES UNLESS OTHERWISE SPECIFIED.
- 9. WRAP ALL DUCTILE IRON PIPE AND ADJACENT VALVES AND FITTINGS WITH 8-MIL. POLYETHYLENE CONFORMING TO AWWA C105.
- THE WATER MAIN SHALL BE INSTALLED ONLY AFTER THE ROADWAY SUBGRADE IS BACKFILLED, GRADED AND COMPACTED IN CUT AND FILL AREAS.
   TRENCH BACKFILL AND SURFACE RESTORATION OF EXISTING ASPHALT
- PAVEMENT SHALL BE AS REQUIRED BY THE RIGHT-OF-WAY USE PERMIT.

  12. ALL FITTINGS SHALL BE BLOCKED PER STANDARD DETAILS UNLESS OTHERWISE SPECIFIED.
- 13. ALL SERVICES SHALL BE 1" X 1" PER STANDARD DETAILS UNLESS OTHERWISE SPECIFIED. ADAPTORS FOR 3/4" METERS SHALL BE USED WHERE APPLICABLE.
- 14. WHEN WORKING WITH ASBESTOS CEMENT PIPE, THE CONTRACTOR IS REQUIRED TO MAINTAIN WORKERS' EXPOSURE TO ASBESTOS MATERIAL AT OR BELOW THE LIMIT PRESCRIBED IN WAC 296-62-07705.
- 15. CALL 1-800-424-5555, OR 811, 72 HOURS BEFORE CONSTRUCTION FOR UTILITY LOCATIONS.
- 16. UNIFORM PLUMBING CODE REQUIRES THE INSTALLATION OF PRIVATELY OWNED AND OPERATED PRESSURE REDUCING VALVES WHERE THE
- OPERATING PRESSURE EXCEEDS 80 PSI.

  17. THE CONTRACTOR SHALL USE A VACUUM STREET SWEEPER TO REMOVE DUST AND DEBRIS FROM PAVEMENT AREAS AS DIRECTED BY THE ENGINEER. FLUSHING OF STREETS SHALL NOT BE PERMITTED WITHOUT PRIOR CITY APPROVAL.
- 18. BEFORE COMMENCEMENT OF TRENCHING, THE CONTRACTOR SHALL PROVIDE CATCH BASIN INSERTS FOR ALL CATCH BASINS THAT WILL RECEIVE RUNOFF FROM THE PROJECT SITE. THE CONTRACTOR SHALL PERIODICALLY INSPECT THE CONDITION OF ALL INSERTS AND REPLACE AS NECESSARY.
- 19. ABANDONMENT OF EXISTING WATER SERVICES SHALL BE ACCOMPLISHED AS FOLLOWS:

  (SEE W5-29 ABANDONING FACILITIES FOR OTHER FACILITY ABANDONMENT)
- A. REMOVE EXISTING SERVICE SADDLE FROM WATER MAIN AND REPLACE WITH NEW STAINLESS STEEL REPAIR BAND, ROMAC SS2, FORD SERVICE SADDLE FC101, CC
  THREADED SADDLE AND A CC THREAD BRASS PLUG, OR APPROVED EQUAL
- (WILL NOT BE REQUIRED WHEN WATER MAIN IS TO BE ABANDONED).

  B. REMOVE AND DISPOSE OF EXISTING SETTER AND METER BOX.

  C. CAP OR CRIMP (IF COPPER) EXISTING SERVICE LINE TO BE ABANDONED IN PLACE, EACH END.
- D. RETURN EXISTING METER TO THE UTILITY INSPECTOR.

  20. WHERE NEW UTILITY LINE CROSSES BELOW AN EXISTING AC MAIN, THE AC PIPE SHALL BE REPLACED WITH DI PIPE TO 3 FEET PAST EACH SIDE OF THE TRENCH AS SHOWN ON STANDARD DETAIL W-8. WRAP DI PIPE AND COUPLINGS WITH 8-MIL POLYETHYLENE CONFORMING TO AWWA C105.

  ALTERNATIVELY, WHERE DIRECTED BY THE ENGINEER, THE TRENCH SHALL BE BACKFILLED WITH CONTROLLED DENSITY FILL (CDF, AKA FLOWABLE FILL)
- FROM BOTTOM OF TRENCH TO THE INVERT OF THE AC MAIN.

  21. AVOID CROSSING WATER OR SEWER MAINS AT HIGHLY ACUTE ANGLES. THE SMALLEST ANGLE MEASURE BETWEEN UTILITIES SHOULD BE 45 TO 90
- 22. WHERE WATER MAIN CROSSES ABOVE OR BELOW SANITARY SEWER, ONE FULL LENGTH OF WATER PIPE SHALL BE CENTERED FOR MAXIMUM JOINT SEPARATION
- SEPARATION.

  23. AT POINTS WHERE EXISTING THRUST BLOCKING IS FOUND, MINIMUM CLEARANCE BETWEEN THE CONCRETE BLOCKING AND OTHER BURIED
- UTILITIES OR STRUCTURES SHALL BE 5 FEET.

  24. WORKERS MUST FOLLOW CONFINED SPACE REGULATIONS AND PROCEDURES WHEN ENTERING OR DOING WORK IN COB OWNED CONFINED SPACES. COMPLETED PERMIT MUST BE GIVEN TO THE UTILITIES INSPECTOR PRIOR TO ENTRY.
- 25. MANHOLES, CATCH BASINS AND VAULTS ARE CONSIDERED TO BE PERMIT-REQUIRED CONFINED SPACES. ENTRY INTO THESE SPACES SHALL BE IN ACCORDANCE WITH CHAPTER 296-809 WAC.
- 26. WHEN WORK IS TO OCCUR IN EASEMENTS, THE CONTRACTOR SHALL NOTIFY THE EASEMENT GRANTOR AND BELLEVUE UTILITIES IN WRITING A MINIMUM OF 48 HOURS IN ADVANCE OF BEGINNING WORK (NOT INCLUDING WEEKENDS OR HOLIDAYS). FAILURE TO NOTIFY GRANTOR AND BELLEVUE UTILITIES WILL RESULT IN A STOP WORK ORDER BEING POSTED UNTIL THE MATTER IS RESOLVED TO THE SATISFACTION OF BELLEVUE UTILITIES. A WRITTEN RELEASE FROM THE EASEMENT GRANTOR SHALL BE FURNISHED TO THE UTILITIES INSPECTOR PRIOR TO PERMIT SIGN OFF.
- PUBLIC UTILITY EASEMENT(S) AFTER CONSTRUCTION TO A CONDITION EQUAL OR BETTER THAN CONDITION PRIOR TO CONTRACTOR SHALL FURNISH A SIGNED RELEASE FROM ALL AFFECTED PROPERTY OWNERS AFTER RESTORATION HAS BEEN COMPLETED.

## SANITARY SEWER GENERAL NOTES:

- 1. ALL WORK SHALL CONFORM TO THE 2021 CITY OF BELLEVUE UTILITY ENGINEERING STANDARDS AND THE DEVELOPER EXTENSION AGREEMENT.
- 2. ALL NEW MANHOLES SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48" AND SHALL CONFORM TO THE STANDARD DETAILS.
- 3. SANITARY SEWER PIPE SHALL BE PVC CONFORMING TO ASTM D-3034 SDR 35 (4"-15") OR ASTM F-679 (18"-27"). BEDDING AND BACKFILL SHALL BE AS SHOWN IN THE STANDARD DETAILS.
- 4. WHERE SHOWN AS C900 PVC, THE SEWER PIPE SHALL HAVE DIMENSION RATIO (DR 18) AND CONFORM TO AWWA C900 OR AWWA C905.
- 5. ALL SIDE SEWERS SHALL BE 6" DIAMETER PIPE AT A MINIMUM 2% SLOPE, UNLESS OTHERWISE NOTED ON THE STANDARD DETAILS.
- 6. SIDE SEWER STATIONS ARE REFERENCED FROM NEAREST DOWNSTREAM MANHOLE.
- 7. LOT CORNERS MUST BE SET AND SIDE SEWER LOCATIONS VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.
- 8. ALL SIDE SEWER STUBS SHALL BE CAPPED WITH A WATERTIGHT CAP AND GASKET. CAP LOCATION SHALL BE MARKED WITH A 2 X 4 STAKE, 12 FEET LONG, WITH ONE END BURIED AT DEPTH OF THE CAP INVERT AND EXTENDING AT LEAST 3 FEET VERTICALLY OUT OF THE GROUND. THE PORTION OF STAKE ABOVE GROUND SHALL BE PAINTED WHITE AND MARKED WITH THE WORD "SEWER" AND THE DEPTH FROM PIPE INVERT TO GROUND SURFACE. CONNECT PIPE TO STAKE WITH AN 8-GAUGE WIRE AT OR ABOVE FINISHED GROUND LEVEL.
- 9. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREIN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. IMMEDIATELY NOTIFY THE ENGINEER IF A CONFLICT EXISTS.
- ALL TESTING AND CONNECTIONS TO EXISTING MAINS SHALL BE DONE IN THE PRESENCE OF A REPRESENTATIVE OF THE CITY OF BELLEVUE UTILITIES DEPARTMENT.
- 11. ALL TRENCHES SHALL BE COMPACTED, AND HMA IN PLACE IN PAVED AREAS, PRIOR TO TESTING SEWER LINES FOR ACCEPTANCE.
- 12. SIDE SEWER STUBS SHALL BE TESTED FOR ACCEPTANCE AT THE SAME TIME THE MAIN SEWER IS TESTED.
- 13. TOPS OF MANHOLES WITHIN PUBLIC RIGHTS-OF-WAY SHALL NOT BE ADJUSTED TO FINAL GRADE UNTIL JUST PRIOR TO PAVING.
- 14. ALL MANHOLES IN UNPAVED AREAS SHALL INCLUDE A
  CONCRETE SEAL AROUND ADJUSTING RINGS PER STANDARD
  DETAIL
- 15. CONTRACTOR SHALL ADJUST ALL MANHOLE RIMS TO FLUSH WITH FINAL FINISHED GRADES, UNLESS OTHERWISE SHOWN.
- 16. ALL SEWER MAIN EXTENSIONS WITHIN THE PUBLIC RIGHT-OF-WAY OR IN EASEMENTS MUST BE "STAKED" BY A SURVEYOR LICENSED IN WASHINGTON STATE FOR "LINE AND GRADE" AND CUT SHEETS PROVIDED TO THE ENGINEER, PRIOR TO STARTING CONSTRUCTION.
- 17. CONTRACTOR SHALL INSTALL, AT ALL CONNECTIONS TO EXISTING DOWNSTREAM MANHOLES, SCREENS OR PLUGS TO PREVENT FOREIGN MATERIALS FROM ENTERING EXISTING SANITARY SEWER SYSTEM. SCREENS OR PLUGS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION AND SHALL BE REMOVED ALONG WITH COLLECTED DEBRIS AT THE TIME OF FINAL INSPECTION AND IN THE PRESENCE OF A REPRESENTATIVE OF THE CITY OF BELLEVUE UTILITIES DEPARTMENT.
- 18. SURFACE RESTORATION OF EXISTING ASPHALT PAVEMENT SHALL BE AS REQUIRED BY THE RIGHT-OF-WAY USE PERMIT.
- 19. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF TEN FEET (10') HORIZONTAL SEPARATION BETWEEN ALL WATER AND SEWER LINES. ANY CONFLICTS SHALL BE REPORTED TO THE UTILITY AND THE ENGINEER PRIOR TO CONSTRUCTION.
- 20. THE CONTRACTOR SHALL ENSURE AND VERIFY THAT NO CONFLICTS EXIST BETWEEN SANITARY SEWER LINES AND PROPOSED OR EXISTING UTILITIES PRIOR TO CONSTRUCTION.
   21. MINIMUM COVER OVER SEWER PIPE SHALL BE FIVE FEET,
- UNLESS OTHERWISE SHOWN.

  22. THE CONTRACTOR SHALL USE A VACUUM STREET SWEEPER
  TO REMOVE DUST AND DEBRIS FROM PAVEMENT AREAS AS
  DIRECTED BY THE ENGINEER.
- 23. NOT USED.
  24. SIDE SEWER DEMOLITION SHALL BE PERFORMED PRIOR TO REMOVAL OF BUILDING FOUNDATION. THE SIDE SEWER FOR EACH BUILDING SHALL BE ABANDONED FROM THE BUILDING CONNECTION TO THE EDGE OF THE PUBLIC RIGHT-OF-WAY, OR PROPERTY LINE. THE CONTRACTOR SHALL CAP THE END OF THE SIDE SEWER STUB TO REMAIN IN PLACE. SIDE SEWER
- TECHNICIAN.

  25. AVOID CROSSING WATER OR SEWER MAINS AT HIGHLY ACUTE ANGLES. THE SMALLEST ANGLE MEASURE BETWEEN UTILITIES SHOULD BE 45 TO 90 DEGREES.

CITY OF BELLEVUE SEWER MAINTENANCE ENGINEERING

DEMOLITION SHALL BE PERFORMED IN THE PRESENCE OF THE

26. AT POINTS WHERE EXISTING THRUST BLOCKING IS FOUND, MINIMUM CLEARANCE BETWEEN THE CONCRETE BLOCKING AND OTHER BURIED UTILITIES OR STRUCTURES SHALL BE 5 FEET.

- 27. WHERE NEW UTILITY LINE CROSSES BELOW AN EXISTING AC MAIN, THE AC PIPE SHALL BE REPLACED WITH DI PIPE TO 3 FEET PAST EACH SIDE OF THE TRENCH AS SHOWN ON STANDARD DETAIL W-8. ALTERNATIVELY, WHERE DIRECTED BY THE ENGINEER, THE TRENCH MAY BE BACKFILLED WITH CONTROLLED DENSITY FILL (CDF, AKA FLOWABLE FILL) FROM
- BOTTOM OF TRENCH TO BOTTOM OF THE AC MAIN.
  28. CALL 1-800-424-5555, OR 811, 72 HOURS BEFORE CONSTRUCTION FOR UTILITY LOCATES.
- 29. MANHOLES, CATCH BASINS AND VAULTS ARE CONSIDERED TO BE PERMIT-REQUIRED CONFINED SPACES. ENTRY INTO THESE SPACES SHALL BE IN ACCORDANCE WITH CHAPTER 296-809
- 30. THE CONTRACTOR SHALL PROVIDE COLOR CCTV EQUIPMENT SHALL INCLUDE TELEVISION CAMERAS, A TELEVISION MONITOR, CABLES, POWER SOURCES, SIDE-LAUNCH CAPABLE IF NECESSARY, AND OTHER EQUIPMENT. FOCAL DISTANCE SHALL BE ADJUSTABLE THROUGH A RANGE FROM 6 INCHES TO INFINITY. THE CCTV EQUIPMENT SHALL INCLUDE A DISTANCE MEASURING INSTRUMENT (DMI) TO MEASURE THE HORIZONTAL DISTANCE TRAVELED BY THE CAMERA. THE DMI READOUT SHALL APPEAR CONTINUOUSLY ON THE VIDEO PRODUCED BY THE INSPECTION AND SHALL BE ACCURATE TO LESS THAN 1 PERCENT ERROR OVER THE LENGTH OF THE SECTION OF PIPELINE BEING INSPECTED. FOR STORM OR SANITARY SEWERS, THE LENGTH IS MEASURED FROM THE CENTERLINE OF THE MANHOLE OR CATCH BASIN TO THE CENTERLINE OF THE NEXT MANHOLE OR CATCH BASIN. SEE SECTION S5-13 CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION FOR VIDEO FORMATTING, NAMING, AND DELIVERY REQUIREMENTS. THE CCTV INSPECTION SYSTEM SHALL BE PERFORMED UTILIZING ONE OF THE FOLLOWING VIDEO CAMERA SYSTEMS: REMOTE-FOCUS STATIONARY LENS CAMERAS; ROTATING LENS CAMERAS; OR PAN-AND-TILT CAMERAS. THE CCTV CAMERA SHALL BE MOUNTED ON A SKID. FLOATABLE RAFT SYSTEM, OR TRANSPORTER BASED ON THE CONDITIONS OF THE PIPELINE TO BE TELEVISED. TELEPHONES, RADIOS, OR OTHER SUITABLE MEANS OF COMMUNICATION SHALL BE UTILIZED TO ENSURE COMMUNICATION EXISTS BETWEEN MEMBERS OF THE CREW THE CONTRACTOR SHALL INSPECT THE PIPELINE DURING OPTIMUM LOW-FLOW LEVEL CONDITIONS, AS PRE-APPROVED BY THE UTILITY INSPECTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY INSPECTOR PRIOR TO VIDEO INSPECTION. THE TELEVISION CAMERA UTILIZED SHALL BE SPECIFICALLY DESIGNED AND CONSTRUCTED FOR SEWER INSPECTION. THE CAMERA SHALL BE OPERATIVE IN 100 PERCENT HUMIDITY CONDITIONS. LIGHTING FOR THE CAMERA SHALL MINIMIZE REFLECTIVE GLARE. LIGHTING AND PICTURE QUALITY SHALL BE SUITABLE TO PROVIDE A CLEAR, IN-FOCUS PICTURE OF THE ENTIRE PERIPHERY OF THE PIPELINE FOR ALL CONDITIONS ENCOUNTERED DURING THE WORK. IF THE QUALITY OF THE VIDEO IS DEEMED TO BE UNACCEPTABLE BY THE UTILITY INSPECTOR, THE PIPELINE SHALL BE RE-TELEVISED AT NO COST TO THE CITY. THE CAMERA SHALL BE MOVED THROUGH THE PIPELINE AT A UNIFORM RATE, STOPPING WHEN NECESSARY TO ENSURE PROPER DOCUMENTATION OF THE PIPELINE CONDITION, BUT IN NO CASE SHALL THE TELEVISION CAMERA BE PULLED AT A SPEED GREATER THAN 30 FEET PER MINUTE STOPPING WHEN NECESSARY TO ENSURE PROPER DOCUMENTATION OF THE PIPE CONDITION. THE VIDEO SHALL BE TAKEN AFTER INSTALLATION, CLEANING, AND PRESSURE TEST TO INSURE THAT NO DEFECTS EXIST. THE PROJECT WILL NOT BE ACCEPTED UNTIL ALL DEFECTS HAVE BEEN REPAIRED
- 31. WHEN WORK IS TO OCCUR IN EASEMENTS, THE CONTRACTOR SHALL NOTIFY THE EASEMENT GRANTOR AND BELLEVUE UTILITIES IN WRITING A MINIMUM OF 48 HOURS IN ADVANCE OF BEGINNING WORK (NOT INCLUDING WEEKENDS OR HOLIDAYS). FAILURE TO NOTIFY GRANTOR AND BELLEVUE UTILITIES WILL RESULT IN A STOP WORK ORDER BEING POSTED UNTIL THE MATTER IS RESOLVED TO THE SATISFACTION OF BELLEVUE UTILITIES. A WRITTEN RELEASE FROM THE EASEMENT GRANTOR SHALL BE FURNISHED TO THE UTILITY INSPECTOR PRIOR TO PERMIT SIGN-OFF.
- 32. THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY AND EXISTING PUBLIC SEWER EASEMENT(S) AFTER CONSTRUCTION TO A CONDITION EQUAL OR BETTER THAN CONDITION PRIOR TO ENTRY. THE CONTRACTOR SHALL FURNISH A SIGNED RELEASE FROM ALL AFFECTED PROPERTY OWNERS AFTER RESTORATION HAS BEEN COMPLETED.

BID SET

## STORM DRAINAGE NOTES:

- 1) STORM PIPE SHALL BE PVC CONFORMING TO ASTM D-3034 SDR 35 (4" 15") OR ASTM F679 (18"-27"). BEDDING AND BACKFILL SHALL BE AS SHOWN IN THE STANDARD DETAILS.
- 2) THE FOOTING DRAINAGE SYSTEM AND THE ROOF DOWNSPOUT SYSTEM SHALL NOT BE INTERCONNECTED AND SHALL SEPARATELY CONVEY COLLECTED FLOWS TO THE CONVEYANCE SYSTEM OR TO ON-SITE STORMWATER FACILITIES.
- 3) PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF STORM DRAINAGE WORK, PIPES AND STORM DRAIN STRUCTURES SHALL BE CLEANED AND FLUSHED. ANY OBSTRUCTIONS TO FLOW WITHIN THE STORM DRAIN SYSTEM, (SUCH AS RUBBLE, MORTAR AND WEDGED DEBRIS), SHALL BE REMOVED AT THE NEAREST STRUCTURE. WASH WATER OF ANY SORT SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM OR SURFACE WATERS.
- 4) ENDS OF EACH STORM DRAIN STUB AT THE PROPERTY LINE SHALL BE CAPPED AND LOCATED WITH AN 8' LONG 2" X 4" BOARD, EMBEDDED TO THE STUB CAP AND EXTENDING AT LEAST 3 FEET ABOVE GRADE, AND MARKED PERMANENTLY "STORM". A COPPER 12 GA. LOCATE WIRE FIRMLY ATTACHED. THE STUB DEPTH SHALL BE INDICATED ON THE MARKER.
- 5) ALL GRATES IN ROADWAYS SHALL BE DUCTILE IRON, BOLT-LOCKING, VANED GRATES PER THE STANDARD DETAILS. STRUCTURES IN TRAFFIC LANES OUTSIDE OF THE CURB LINE WHICH DO NOT COLLECT RUNOFF SHALL BE FITTED WITH ROUND, BOLT-LOCKING FRAMES AND SOLID COVERS. OFF-STREET STRUCTURES WHICH DO NOT COLLECT RUNOFF SHALL BE FITTED WITH BOLT-LOCKING SOLID COVERS.
- 6) VEGETATION/LANDSCAPING IN THE DETENTION POND, BIORETENTION FACILITY, VEGETATED ROOF AND/OR DRAINAGE SWALE(S) ARE AN INTEGRAL PART OF THE RUNOFF TREATMENT SYSTEM FOR THE PROJECT. SUCH DRAINAGE FACILITIES WILL NOT BE ACCEPTED UNTIL PLANTINGS ARE ESTABLISHED.
- 7) ALL NEW MANHOLES SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL CONFORM TO THE STANDARD DETAILS. ALL NEW CATCH BASINS SHALL CONFORM TO THE STANDARD DETAILS.
- 8) STORM STUB STATIONS ARE REFERENCED FROM NEAREST DOWNSTREAM MANHOLE/CATCH BASIN.
   9) ALL TESTING AND CONNECTIONS TO EXISTING MAINS SHALL BE DONE IN
- THE PRESENCE OF THE CITY'S INSPECTOR.

  10) ALL PUBLIC STORM DRAINS SHALL BE AIR TESTED AND HAVE A VIDEO INSPECTION PERFORMED PRIOR TO ACCEPTANCE (SEE #17 BELOW). STORM MAIN CONSTRUCTED WITH FLEXIBLE PIPE SHALL BE DEFLECTION TESTED WITH A MANDREL PRIOR TO ACCEPTANCE.
- 11) STORM STUBS SHALL BE TESTED FOR ACCEPTANCE AT THE SAME TIME THE STORM MAIN IS TESTED.
- 12) ALL MANHOLES/ CATCH BASINS IN UNPAVED AREAS SHALL INCLUDE A
- CONCRETE SEAL AROUND ADJUSTMENT RINGS PER STANDARD DETAILS.

  13) ALL STORM MAIN EXTENSIONS WITHIN THE PUBLIC RIGHT-OF-WAY OR IN EASEMENTS MUST BE "STAKED" BY A SURVEYOR LICENSED IN WASHINGTON STATE FOR "LINE AND GRADE" AND CUT SHEETS PROVIDED TO THE CITY'S INSPECTOR, PRIOR TO STARTING CONSTRUCTION.
- 14) STORM DRAINAGE MAINLINES, STUBS AND FITTINGS SHALL BE CONSTRUCTED USING THE SAME PIPE MATERIAL AND MANUFACTURER. CONNECTIONS BETWEEN STUBS AND THE MAINLINE WILL BE MADE WITH A TEE FITTING. TEE FITTING SHALL BE FROM SAME MANUFACTURER AS PIPE. CUT-IN CONNECTIONS ARE ONLY ALLOWED WHEN CONNECTING A NEW STUB TO AN EXISTING MAINLINE.
- 15) MANHOLES, CATCH BASINS AND VAULTS ARE CONSIDERED TO BE PERMIT-REQUIRED CONFINED SPACES. ENTRY INTO THESE SPACES SHALL BE IN ACCORDANCE WITH CHAPTER 296-809 WAC.
- 16) PLACEMENT OF SURFACE APPURTENANCES (MH LIDS, VALVE LIDS, ETC.) IN TIRE TRACKS OF TRAFFIC LANES SHALL BE AVOIDED WHENEVER POSSIBLE.
- 17) THE CONTRACTOR SHALL PERFORM A VIDEO INSPECTION AND PROVIDE A DIGITAL COPY OF THE VIDEO INSPECTION FOR THE CITY'S REVIEW. THE VIDEO SHALL PROVIDE A MINIMUM OF 480 X 640 RESOLUTION AND COVER THE ENTIRE LENGTH OF THE APPLICABLE PIPE. THE CAMERA SHALL BE MOVED THROUGH THE PIPE AT A UNIFORM RATE (≤ 30 FT/MIN), STOPPING WHEN NECESSARY TO ENSURE PROPER DOCUMENTATION OF THE PIPE CONDITION. THE VIDEO SHALL BE TAKEN AFTER INSTALLATION AND CLEANING TO INSURE THAT NO DEFECTS EXIST. THE PROJECT WILL NOT BE ACCEPTED UNTIL ALL DEFECTS HAVE BEEN REPAIRED.
- 18) NOT USED
- 19) ALL CONCRETE STRUCTURES (VAULTS, CATCH BASINS, MANHOLES,
- OIL/WATER SEPARATORS, ETC.) SHALL BE VACUUM TESTED.

  20) MANHOLES, CATCH BASINS AND INLETS IN EASEMENTS SHALL BE
  CONSTRUCTED TO PROVIDE A STABLE, LEVEL GRADE FOR A MINIMUM
  RADIUS OF 2.5 FEET AROUND THE CENTER OF THE ACCESS OPENING TO
- ACCOMMODATE CONFINED SPACE ENTRY EQUIPMENT.

  21) TOPS OF MANHOLES/CATCH BASINS WITHIN PUBLIC RIGHT-OF-WAY SHALL
  NOT BE AD JUSTED TO FINAL CRADE LINTULATED BAYING.
- NOT BE ADJUSTED TO FINAL GRADE UNTIL AFTER PAVING.
  22) CONTRACTOR SHALL ADJUST ALL MANHOLE/CATCH BASIN RIMS TO BE
- FLUSH WITH FINAL FINISHED GRADES, UNLESS OTHERWISE SHOWN.

  23) DURING CONSTRUCTION, CONTRACTOR SHALL INSTALL, AT ALL CONNECTIONS TO EXISTING DOWNSTREAM MANHOLES/CATCH BASINS, SCREENS OR PLUGS TO PREVENT FOREIGN MATERIALS FROM ENTERING EXISTING STORM DRAINAGE SYSTEM. SCREENS OR PLUGS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE CONSTRUCTION AND SHALL BE REMOVED ALONG WITH COLLECTED DEBRIS AT THE TIME OF FINAL INSPECTION AND IN THE PRESENCE OF THE CITY'S INSPECTOR.
- 24) NOT USED.25) MINIMUM COVER OVER STORM DRAINAGE PIPE SHALL BE 2 FEET, UNLESS OTHERWISE SHOWN.
- 26) REDIRECT SHEET FLOW, BLOCK DRAIN INLETS AND/OR CURB OPENINGS IN PAVEMENT AND INSTALL FLOW DIVERSION MEASURES TO PREVENT CONSTRUCTION SILT LADEN RUNOFF AND DEBRIS FROM ENTERING EXCAVATIONS AND FINISH SURFACES FOR BIORETENTION FACILITIES AND PERMEABLE PAVEMENTS.
- 27) WHERE AMENDED SOILS, BIORETENTION FACILITIES, AND PERMEABLE PAVEMENTS ARE INSTALLED, THESE AREAS SHALL BE PROTECTED AT ALL TIMES FROM BEING OVER-COMPACTED.

## UTILITY NOTES:

- 1) THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE EXCAVATOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HERE ON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. IMMEDIATELY NOTIFY THE
- RESPONSIBLE PROFESSIONAL ENGINEER IF A CONFLICT EXISTS.

  2) CALL 1-800-424-5555, OR 8-1-1, 72 HOURS BEFORE CONSTRUCTION FOR UTILITY LOCATES.
- 3) THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF FIVE FEET (5')
  HORIZONTAL SEPARATION BETWEEN ALL WATER AND STORM
  DRAINAGE LINES. ANY CONFLICT SHALL BE REPORTED TO THE
  UTILITY AND THE RESPONSIBLE PROFESSIONAL ENGINEER PRIOR
  TO CONSTRUCTION.
- 4) AVOID CROSSING WATER OR SEWER MAINS AT HIGHLY ACUTE ANGLES. THE SMALLEST ANGLE MEASURE BETWEEN UTILITIES SHOULD BE 45 DEGREES.
- 5) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO CONFLICTS EXIST BETWEEN STORM DRAINAGE FACILITIES AND PROPOSED OR EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 6) AT POINTS WHERE EXISTING THRUST BLOCKING IS FOUND, MINIMUM CLEARANCE BETWEEN CONCRETE BLOCKING AND OTHER BURIED UTILITIES OR STRUCTURES SHALL BE 5 FEET.
- 7) WHERE A NEW UTILITY LINE CROSSES BELOW AN EXISTING AC MAIN, THE AC PIPE SHALL BE REPLACED WITH DI PIPE TO 3 FEET PAST EACH SIDE OF THE TRENCH AS SHOWN ON STANDARD DETAIL W-8. ALTERNATIVELY, APPROVED IN WRITING BY THE UTILITY, THE TRENCH MAY BE BACKFILLED WITH CONTROLLED DENSITY FILL (CDF, AKA FLOWABLE FILL) FROM BOTTOM OF TRENCH TO BOTTOM OF AC MAIN.

## **RESTORATION NOTES:**

- 1) SURFACE RESTORATION OF EXISTING ASPHALT PAVEMENT SHALL
- BE AS REQUIRED BY THE RIGHT-OF-WAY USE PERMIT.

  2) THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY AND EXISTING PUBLIC STORM DRAINAGE EASEMENT(S) AFTER CONSTRUCTION TO A CONDITION EQUAL OR BETTER THAN CONDITION PRIOR TO ENTRY. THE CONTRACTOR SHALL FURNISH A SIGNED RELEASE FROM ALL AFFECTED PROPERTY OWNERS AFTER RESTORATION HAS BEEN COMPLETED.

## GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE 2021 EDITION OF THE CITY OF BELLEVUE UTILITIES DEPARTMENT ENGINEERING STANDARDS.
- 2) THE CONTRACTOR SHALL USE A VACUUM STREET SWEEPER TO REMOVE DUST AND DEBRIS FROM PAVEMENT AREAS.
- 3) WHEN WORK IS TO OCCUR IN EASEMENTS, THE CONTRACTOR SHALL NOTIFY THE EASEMENT GRANTOR AND CITY'S INSPECTOR IN WRITING A MINIMUM OF 48 HOURS IN ADVANCE OF BEGINNING WORK (NOT INCLUDING WEEKENDS OR HOLIDAYS). FAILURE TO NOTIFY GRANTOR AND THE CITY'S INSPECTOR WILL RESULT IN A

STOP WORK ORDER BEING POSTED UNTIL THE MATTER IS

- RESOLVED TO THE SATISFACTION OF THE UTILITY. A WRITTEN RELEASE FROM THE EASEMENT GRANTOR SHALL BE FURNISHED TO THE CITY'S INSPECTOR PRIOR TO PERMIT SIGN-OFF.
- 4) ALL TRENCHES SHALL BE BACKFILLED. COMPACTED, AND PAVEMENT IN PLACE IN PAVED AREAS, PRIOR TO TESTING UTILITY PIPES FOR ACCEPTANCE.

## **RECORD DRAWINGS:**

RECORD DRAWINGS SHALL BE BASED ON FIELD SURVEY INFORMATION AND FIELD MEASUREMENTS. ALL SURVEY WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF WASHINGTON.

RECORD DRAWING INFORMATION SHALL BE RECORDED ON THE DETAIL, PLAN AND PROFILE VIEWS OF THE APPROVED CONSTRUCTION DRAWINGS. INCOMPLETE, INACCURATE, ILLEGIBLE, OR POOR-QUALITY DRAWINGS WILL BE REJECTED.

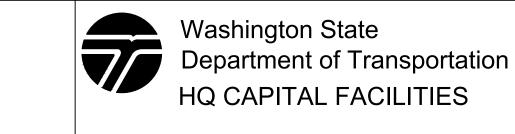
ALL PLAN SHEETS MUST HAVE A "RECORD DRAWING" STAMP BLOCK.



PROJECT ARCHITECT:					REGION NO. 10	STATE: WASH
DRAWN BY: KMP					FEDERAL AID	
REVIEWED BY: TW					UB PE	RMIT
REVIEWED BY: RJ					HEDG00	00002
, PERMIT SET FIRST SUBMITTAL	8/2/21					
BID SET	2/9/22				FCR NO:	
AS BUILT BY: MM/DD/UB					DESIGN NO:	
	DATE	REVISION	BY	DATE	CONTRACT NO:	



Phone: 253.922.9780



NORTHUP PREWASH RETROFIT NPDES-NWR

UB PLANS

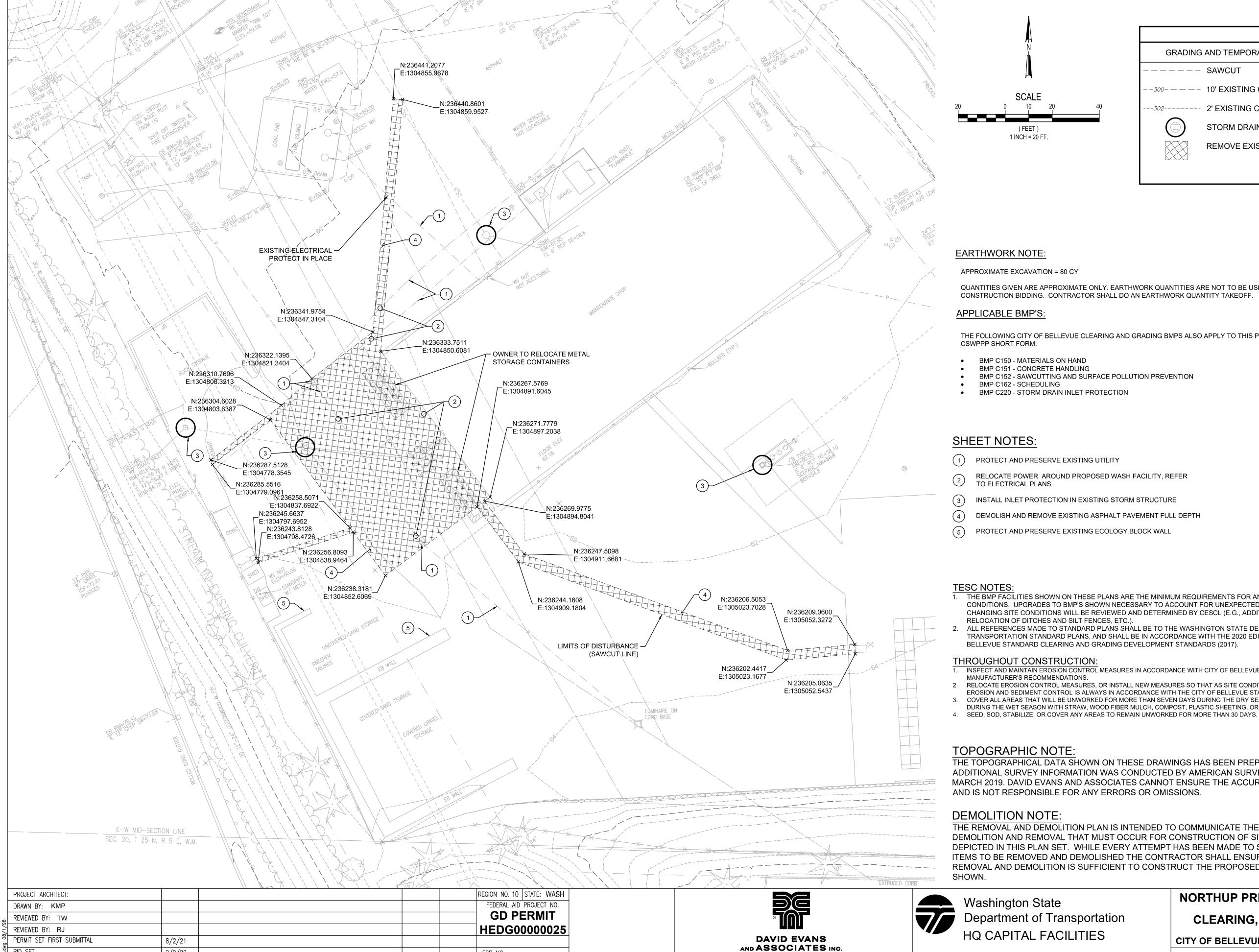
CITY OF BELLEVUE,

**COB STANDARD NOTES** 

WA SHEET OF

SHEETS

C102



FCR NO:

DESIGN NO:

CONTRACT NO:

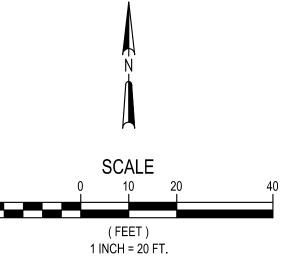
**BID SET** 

2/9/22

DATE

REVISION

AS BUILT BY: MM/DD/YY



# **LEGEND**

GRADING AND TEMPORARY EROSION AND SEDIMENTATION CONTROL

----- SAWCUT

-300- — — — 10' EXISTING CONTOURS

-302----- 2' EXISTING CONTOURS

STORM DRAIN INLET PROTECTION

REMOVE EXISTING ASPHALT

## EARTHWORK NOTE:

APPROXIMATE EXCAVATION = 80 CY

QUANTITIES GIVEN ARE APPROXIMATE ONLY. EARTHWORK QUANTITIES ARE NOT TO BE USED FOR CONSTRUCTION BIDDING. CONTRACTOR SHALL DO AN EARTHWORK QUANTITY TAKEOFF.

## **APPLICABLE BMP'S:**

THE FOLLOWING CITY OF BELLEVUE CLEARING AND GRADING BMPS ALSO APPLY TO THIS PROJECT. SEE **CSWPPP SHORT FORM:** 

- BMP C150 MATERIALS ON HAND
- BMP C151 CONCRETE HANDLING
- BMP C152 SAWCUTTING AND SURFACE POLLUTION PREVENTION
- BMP C162 SCHEDULING
- BMP C220 STORM DRAIN INLET PROTECTION

## SHEET NOTES:

- PROTECT AND PRESERVE EXISTING UTILITY
- RELOCATE POWER AROUND PROPOSED WASH FACILITY, REFER
- INSTALL INLET PROTECTION IN EXISTING STORM STRUCTURE
- DEMOLISH AND REMOVE EXISTING ASPHALT PAVEMENT FULL DEPTH
- PROTECT AND PRESERVE EXISTING ECOLOGY BLOCK WALL

## **TESC NOTES:**

- THE BMP FACILITIES SHOWN ON THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. UPGRADES TO BMP'S SHOWN NECESSARY TO ACCOUNT FOR UNEXPECTED STORM EVENTS OR CHANGING SITE CONDITIONS WILL BE REVIEWED AND DETERMINED BY CESCL (E.G., ADDITIONAL SUMP PUMPS RELOCATION OF DITCHES AND SILT FENCES, ETC.).
- ALL REFERENCES MADE TO STANDARD PLANS SHALL BE TO THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD PLANS, AND SHALL BE IN ACCORDANCE WITH THE 2020 EDITION AND THE CITY OF BELLEVUE STANDARD CLEARING AND GRADING DEVELOPMENT STANDARDS (2017).

## THROUGHOUT CONSTRUCTION:

- 1. INSPECT AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF BELLEVUE STANDARDS AND
- MANUFACTURER'S RECOMMENDATIONS. RELOCATE EROSION CONTROL MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE
- COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.

# **TOPOGRAPHIC NOTE:**

THE TOPOGRAPHICAL DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED BY OTHERS. ADDITIONAL SURVEY INFORMATION WAS CONDUCTED BY AMERICAN SURVEYING & ENVIRONMENTAL MARCH 2019. DAVID EVANS AND ASSOCIATES CANNOT ENSURE THE ACCURACY OF THAT INFORMATION AND IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS.

## **DEMOLITION NOTE:**

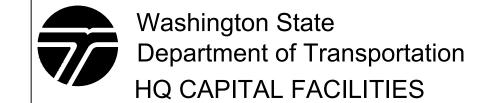
THE REMOVAL AND DEMOLITION PLAN IS INTENDED TO COMMUNICATE THE GENERAL SCOPE OF DEMOLITION AND REMOVAL THAT MUST OCCUR FOR CONSTRUCTION OF SITE IMPROVEMENTS THAT ARE DEPICTED IN THIS PLAN SET. WHILE EVERY ATTEMPT HAS BEEN MADE TO SHOW A COMPLETE LIST OF ITEMS TO BE REMOVED AND DEMOLISHED THE CONTRACTOR SHALL ENSURE THAT THE SCOPE OF REMOVAL AND DEMOLITION IS SUFFICIENT TO CONSTRUCT THE PROPOSED SITE IMPROVEMENTS AS



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NORTHUP PREWASH RETROFIT NPDES-NWR **CLEARING, GRADING, AND TESC PLANS** 

CITY OF BELLEVUE,

**TESC PLAN** 

WA

C103

EROSION CONTROL FILTER

NOT TO SCALE

FENCE CONSTRUCTION LIMITS.

INSTALL CB PROTECTION.

DEMOLISH AND REMOVE ASPHALT PAVEMENT

EXCAVATE AREA

MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF BELLEVUE STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

RELOCATE EROSION CONTROL MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY OF BELLEVUE CLEARING AND GRADING STANDARDS.

COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.

10. INSTALL STORM SYSTEM

11. INSTALL SIDE SEWER AND WATER LINE.

12. INSTALL CANOPY FOOTINGS AND WASH AREA.

**BID SET** 

13. INSTALL/RESTORE ASPHALT PAVEMENT.

14. UPON COMPLETION OF THE PROJECT, REMOVE BMPS IF APPROPRIATE.

## STANDARD NOTES FOR EROSION CONTROL PLANS

1. ALL CLEARING & GRADING CONSTRUCTION MUST BE IN ACCORDANCE WITH CITY OF BELLEVUE (COB) CLEARING & GRADING CODE, CLEARING & GRADING DEVELOPMENT STANDARDS, LAND USE CODE, UNIFORM BUILDING CODE, PERMIT CONDITIONS, AND ALL OTHER APPLICABLE CODES, ORDINANCES, AND STANDARDS. THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THESE REQUIREMENTS. ANY VARIANCE FROM ADOPTED EROSION CONTROL STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY OF BELLEVUE DEVELOPMENT SERVICES (DSD) PRIOR TO CONSTRUCTION.

IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL CIVIL ENGINEER TO CORRECT ANY ERROR. OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS, ALL CORRECTIONS SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO THE COB.

2. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).

3. A COPY OF THE APPROVED PLANS AND DRAWINGS MUST BE ON-SITE DURING CONSTRUCTION. THE APPLICANT IS RESPONSIBLE FOR OBTAINING ANY OTHER REQUIRED OR RELATED PERMITS PRIOR TO BEGINNING CONSTRUCTION.

4. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.

5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.

6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.

7. ALL LOCATIONS OF EXISTING UTILITIES HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD, THEREFORE, BE CONSIDERED ONLY APPROXIMATE AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS AND TO DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.

8. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

9. CLEARING SHALL BE LIMITED TO THE AREAS WITHIN THE APPROVED DISTURBANCE LIMITS. EXPOSED SOILS MUST BE COVERED AT THE END OF EACH WORKING DAY WHEN WORKING FROM OCTOBER 1ST THROUGH APRIL 30TH. FROM MAY 1ST THROUGH SEPTEMBER 30TH, EXPOSED SOILS MUST BE COVERED AT THE END OF EACH CONSTRUCTION WEEK AND ALSO AT THE THREAT OF RAIN

10. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN, ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

11. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT

12. THE CONTRACTOR MUST MAINTAIN A SWEEPER ON SITE DURING EARTHWORK AND IMMEDIATELY REMOVE SOIL THAT HAS BEEN TRACKED ONTO PAVED AREAS AS RESULT OF CONSTRUCTION.

13. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

14. ANY EXCAVATED MATERIAL REMOVED FROM THE CONSTRUCTION SITE AND DEPOSITED ON PROPERTY WITHIN THE CITY LIMITS MUST BE DONE IN COMPLIANCE WITH A VALID CLEARING & GRADING PERMIT. LOCATIONS FOR THE MOBILIZATION AREA AND STOCKPILED MATERIAL MUST BE APPROVED BY THE CLEARING AND GRADING INSPECTOR AT LEAST 24 HOURS IN ADVANCE OF ANY STOCKPILING.

15. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT.

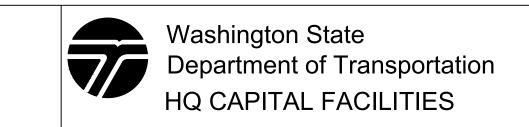
16. FINAL SITE GRADING MUST DIRECT DRAINAGE AWAY FROM ALL BUILDING STRUCTURES AT A MINIMUM 5% SLOPE. PER THE INTERNATIONAL RESIDENTIAL CODE (IRC) R401.3.



PROJECT ARCHITECT: REGION NO. 10 | STATE: WASH FEDERAL AID PROJECT NO. DRAWN BY: KMP **GD PERMIT** REVIEWED BY: TW REVIEWED BY: RJ HEDG00000025 PERMIT SET FIRST SUBMITTAL 8/2/21 2/9/22 FCR NO: AS BUILT BY: MM/DD/YY DESIGN NO: DATE REVISION DATE CONTRACT NO:



Phone: 253.922.9780



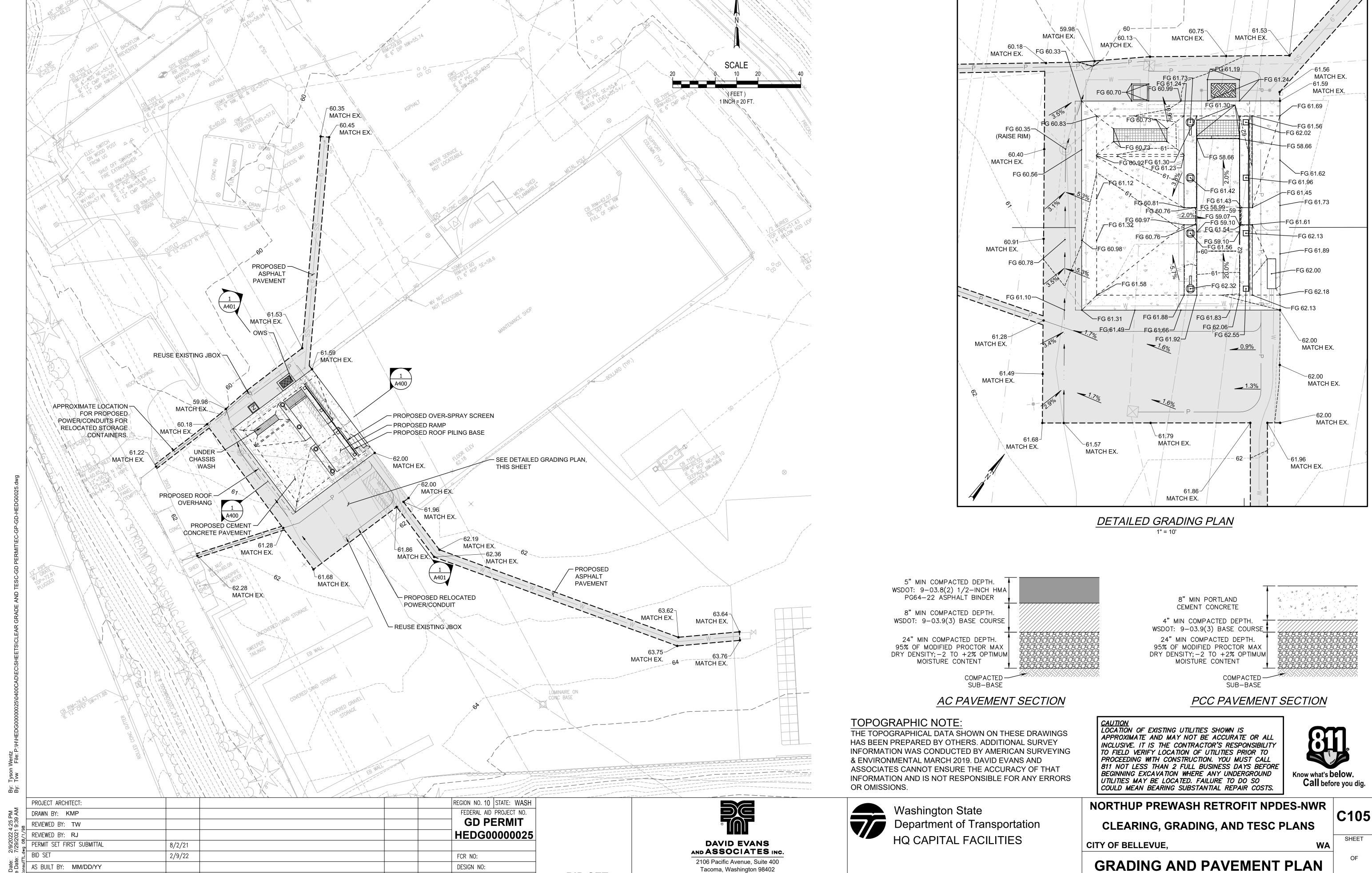
NORTHUP PREWASH RETROFIT NPDES-NWR **CLEARING, GRADING, AND TESC PLANS** 

SHEET WA

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C104

CITY OF BELLEVUE, **TESC NOTES AND DETAILS** 



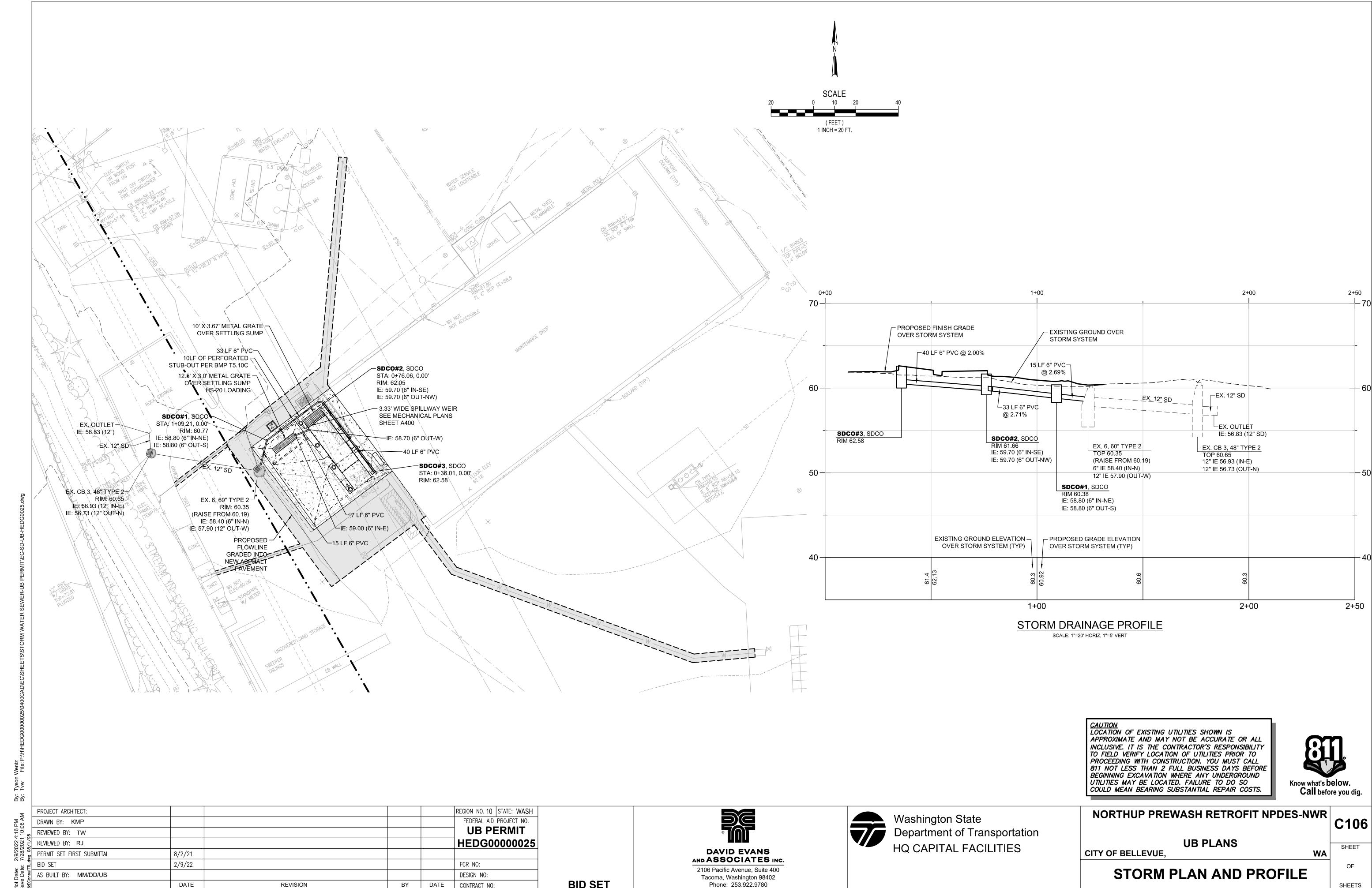
Phone: 253.922.9780

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CONTRACT NO:

DATE

REVISION



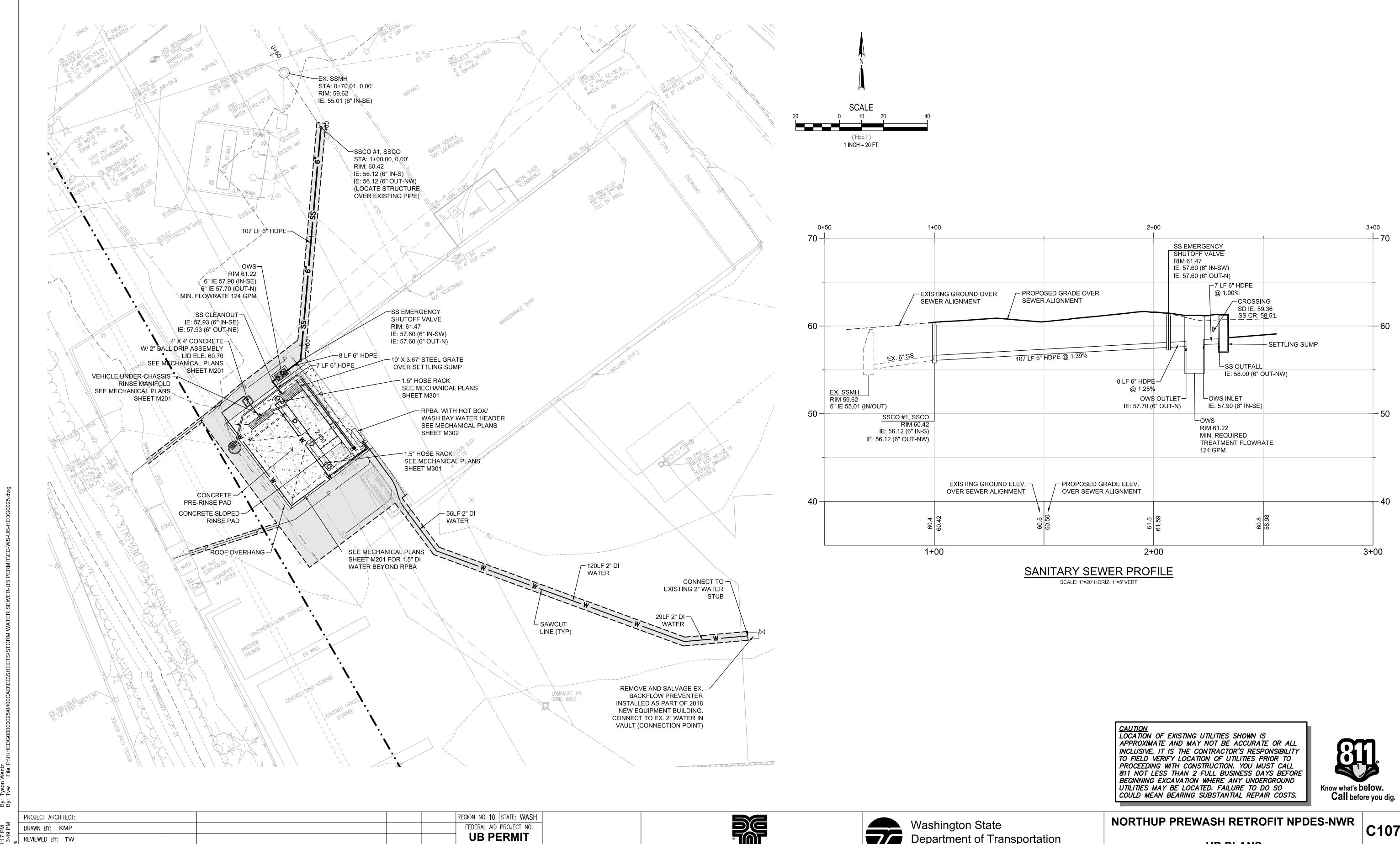
REVISION

**BID SET** 

DATE

CONTRACT NO:

SHEETS



REVIEWED BY: RJ

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PERMIT SET FIRST SUBMITTAL

AS BUILT BY: MM/DD/UB

8/2/21

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REVISION

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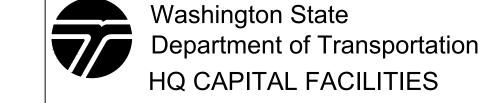
DESIGN NO:

CONTRACT NO:

**DAVID EVANS** AND ASSOCIATES INC. 2106 Pacific Avenue, Suite 400

Tacoma, Washington 98402

Phone: 253.922.9780



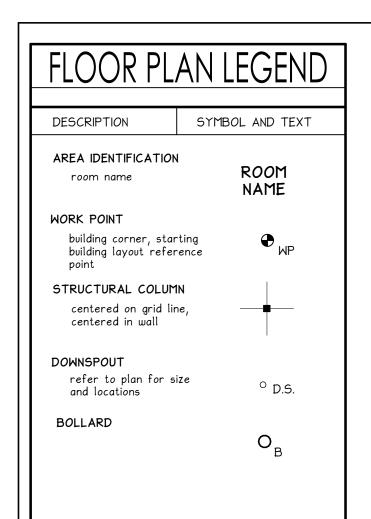
**UB PLANS** 

CITY OF BELLEVUE,

WATER AND SEWER PLAN AND PROFILE

SHEET WA SHEETS





# WALL TYPES

DESCRIPTION SYMBOL AND TEXT

WALL TYPE I

4" INSULATED METAL
WALL PANEL, I HOUR FIRE
RATED

# **GENERAL NOTES**

NOTE

ABBREVIATIONS:

(D) - DEMOLITION
(R) - RELOCATE
(E) - EXISTING TO REMAIN
(S) - SALVAGE

REFER TO SHEET G020 FOR STANDARD ABBREVIATIONS LIST.

# FLOOR PLAN NOTES

SYMBOL NOTE

FOI 8" CONCRETE FILLED PIPE BOLLARD WITH COVER, TYPICAL

FO2 UNDER CHASSIS WASH GRATE

FO3 SLOPE TO DRAIN, RECTANGLE BLOCK-OUT DRAIN.

FO4 24" DIA. STEEL, CONCRETE FILLED PIPE COLUMN PROTECTION (TYP).

FO5 STAINLESS STEEL CHAIN, REMOVABLE

FO6 CHAIN RAIL POST, REMOVABLE, TYPICAL

FO7 SLOPE TOP OF CURB TO DRAIN.

FO8 CHASSIS RINSE CONTROLS

FO9 OUTLINE OF ROOF ABOVE

FO CATCH BASIN.

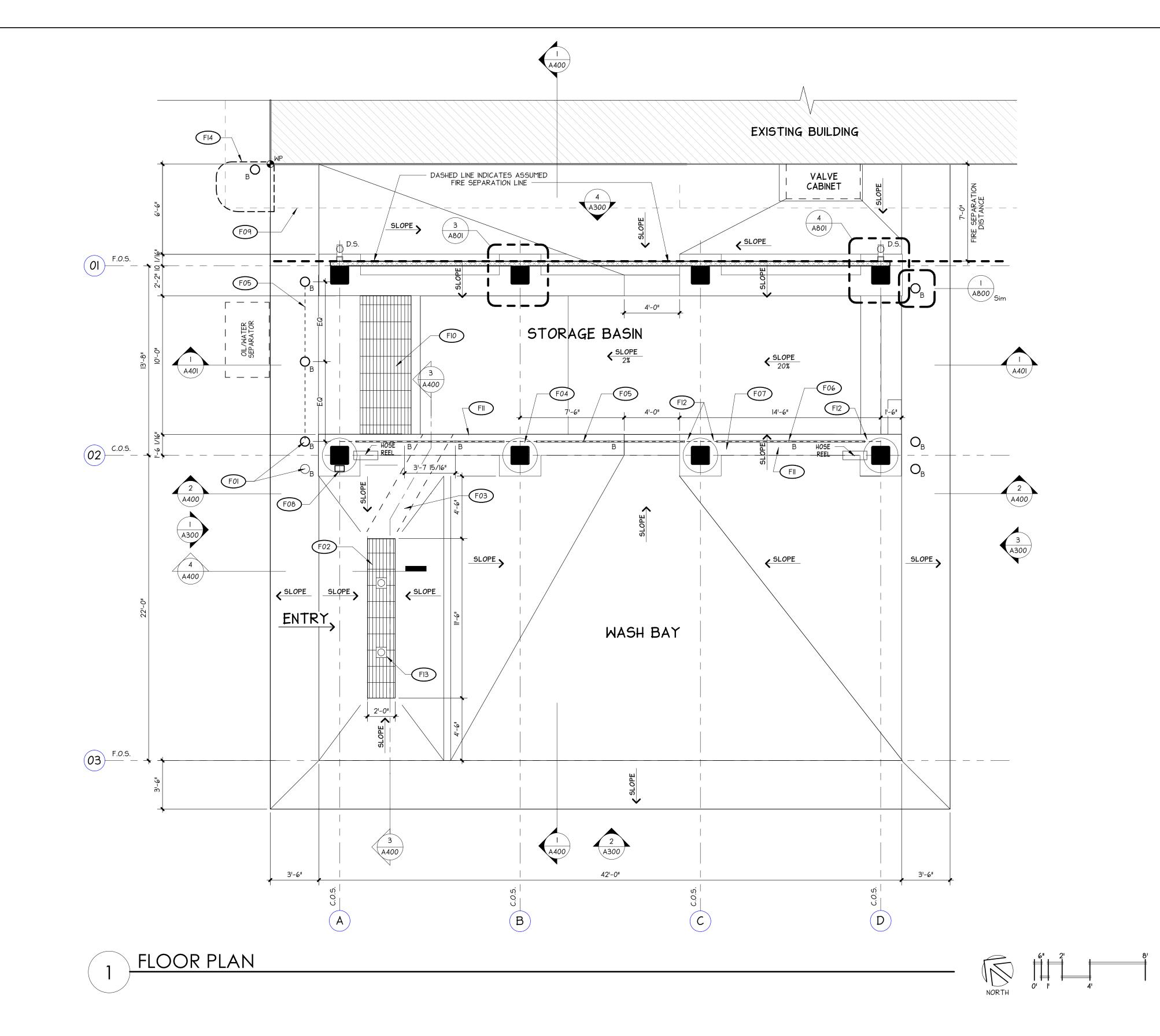
FII SLOPE OF TOP OF CURB TO DRAIN INTO BASIN.

FII SLOPE OF TOP OF CURB TO DRAIN INTO BASIN.

FII SLOPE OF TOP OF CURB TO DRAIN INTO BASIN.

FII CHASSIS RINSE.

FI4 DEMO EXISTING CURB & BOLLARDS.



PROJECT ARCHITECT: LC		REGION NO. STATE:	
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	DATE	CONTRACT NO:	





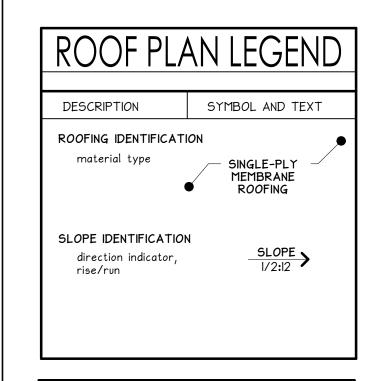
6021 12th street east suite 201 tacoma, wa. 98424 tel: 253.922.9037 fax: 253.922.6499



NORTHUP PREWASH	
RETROFIT NPDES - NWR	
BID SET	

FLOOR PLAN

A100



# ROOF PLAN NOTES

SYMB <i>O</i> L	NOTE
ROI	EXISTING BUILDING ROOF OUTLINE
R02	FALL PROTECTION ANCHOR
R03	ALUMINUM CROSS-OVER STAIR SYSTEM.
R04	ROOF PROTECTION MATS UNDER STAIR.

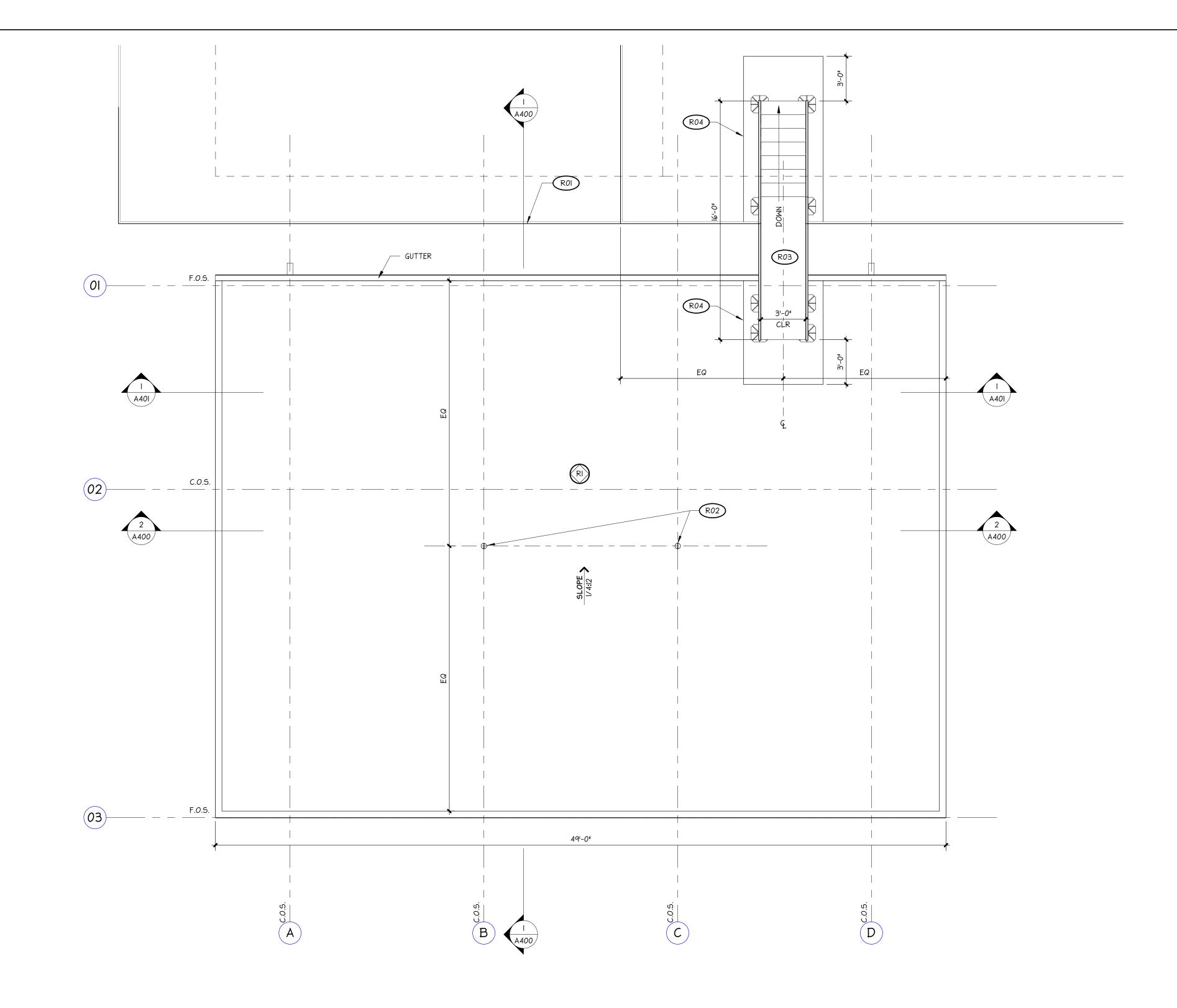
# GENERAL NOTES

NOTE

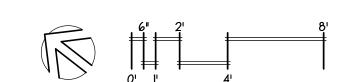
I. ABBREVIATIONS:

(D) - DEMOLITION
(R) - RELOCATE
(E) - EXISTING TO REMAIN
(S) - SALVAGE

REFER TO SHEET G020 FOR STANDARD
ABBREVIATIONS LIST.
.



1 ROOF PLAN



A110

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	DATE		CONTRACT NO	):	









NORTHUP PREWASH
RETROFIT NPDES - NWR
BID SET

ROOF PLAN

SYMBOL NOTE

COI EXISTING BUILDING ROOF OUTLINE

RECESSED LED LIGHT FIXTURE, TYPICAL

CO3 LED FLOOD LIGHT, TYPICAL

VENTED METAL PANEL, TYPICAL

SOLID METAL PANEL, BEAM WRAP (TYPICAL)

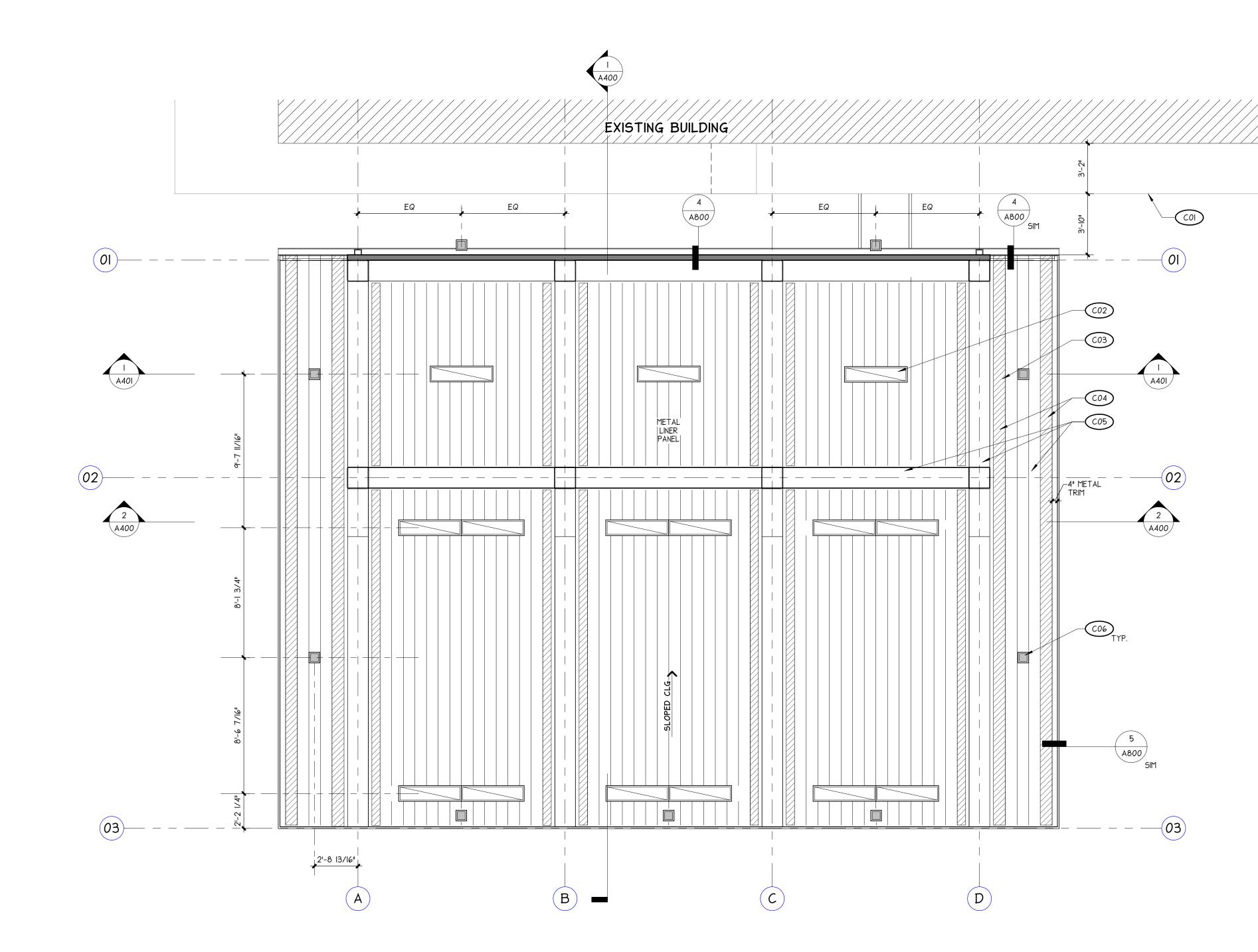
C06 LIGHT FIXTURE

GENERAL NOTES

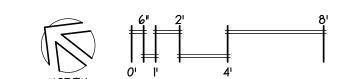
NOTE
. ABBREVIATIONS:

(D) - DEMOLITION (R) - RELOCATE (E) - EXISTING TO REMAIN (S) - SALVAGE

REFER TO SHEET G020 FOR STANDARD ABBREVIATIONS LIST.



REFLECTED CEILING PLAN



A120

PROJECT ARCHITECT: LC		REGION NO.	STATE:	
DRAWN BY: EA		FEDERAL AND PROJECT NO.		69
REVIEWED BY: LC	2/9/22			`
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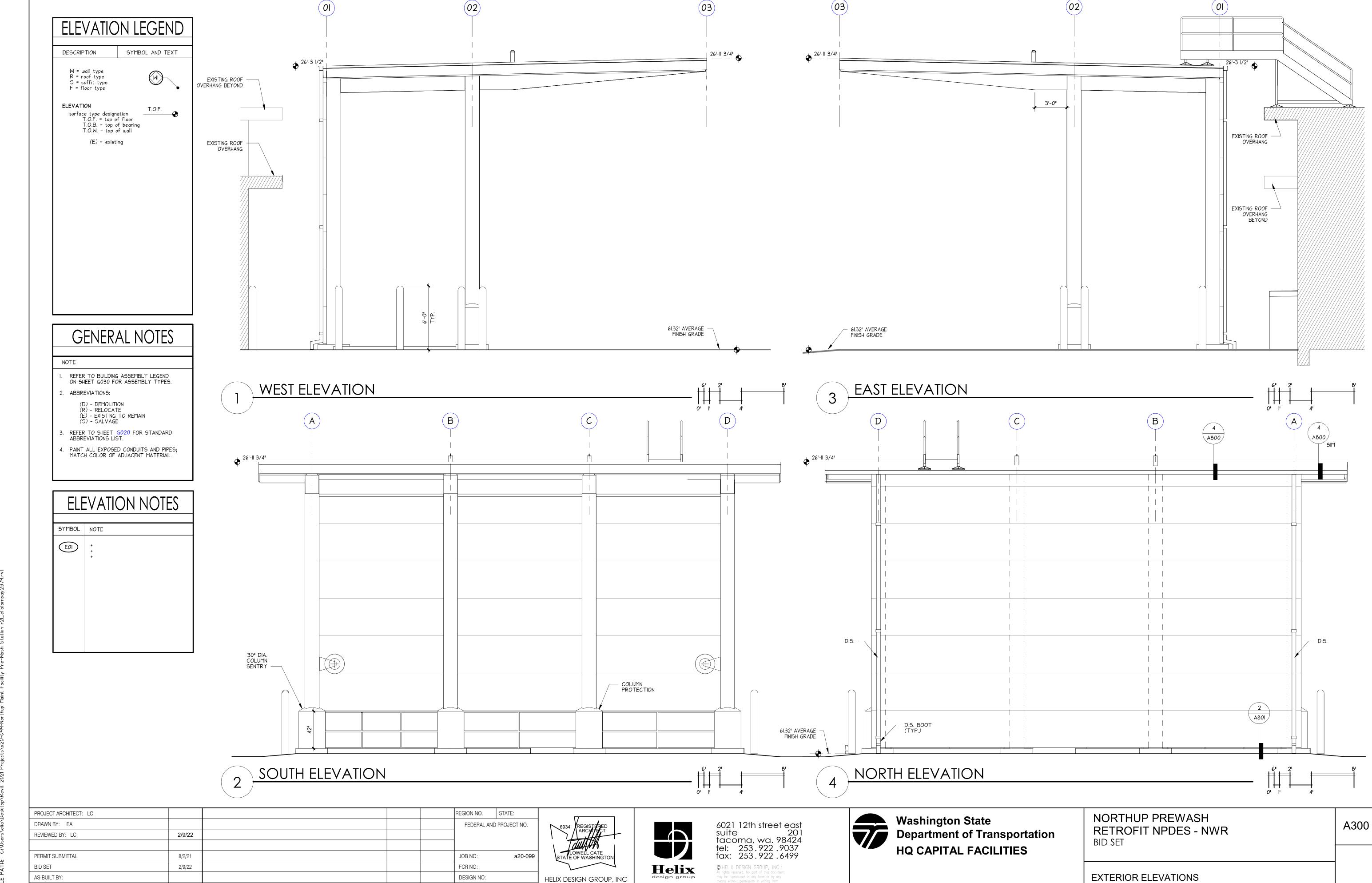


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NORTHUP PREWASH RETROFIT NPDES - NWR BID SET

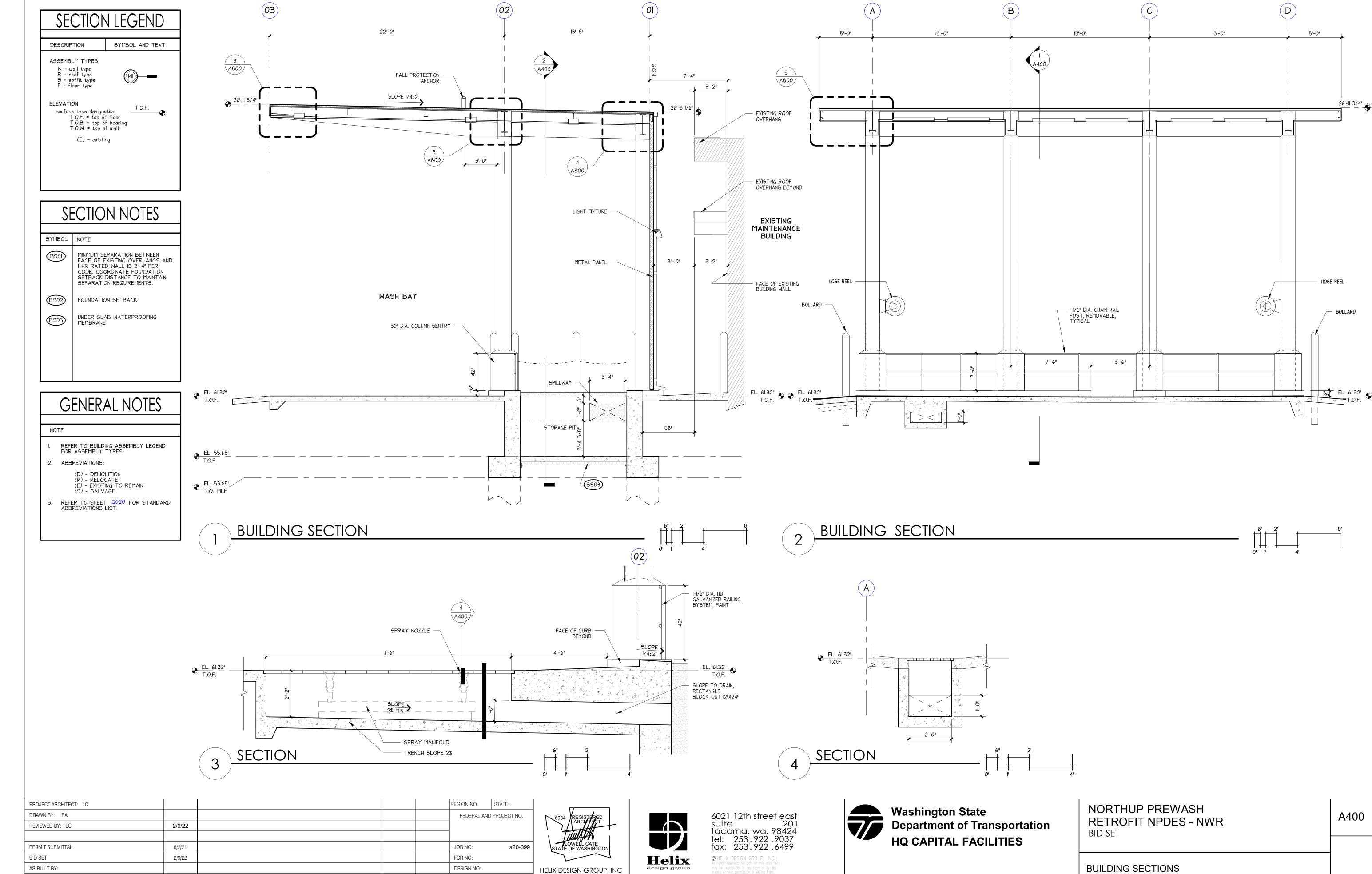
REFLECTED CEILING PLAN



PLOTTED: 3/4/2022 12:10:37 PM PROJECT: a20-099 - NORTHUP PREMASH FLE PATH: C:\Users\elia\Desktop\Revit 2021 Projects\a20-099-Northup Maint Facility Pre-Mash Station r2|\_elialampay2379.rvt

DATE

CONTRACT NO:



DATE

CONTRACT NO:

# SECTION NOTE SYMBOL NOTE MINIMUM SEPARATION BETWEEN FACE OF EXISTING OVERHANGS AND I-HR RATED WALL IS 3'-4" PER CODE. COORDINATE FOUNDATION SETBACK DISTANCE TO MAINTAIN SEPARATION REQUIREMENTS. B502 FOUNDATION SETBACK. UNDER SLAB WATERPROOFING MEMBRANE

# GENERAL NOTES

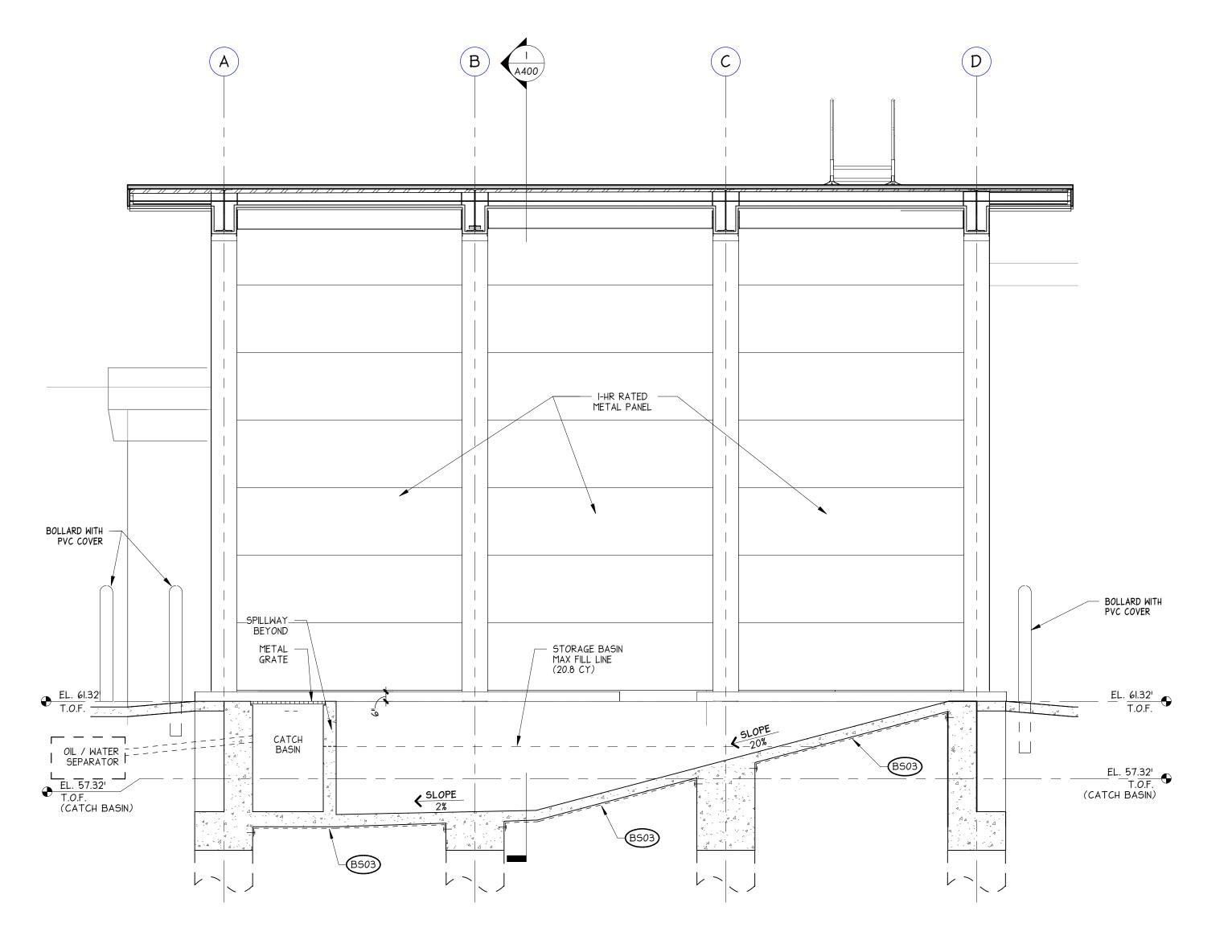
NOTE

REFER TO BUILDING ASSEMBLY LEGEND FOR ASSEMBLY TYPES.

2. ABBREVIATIONS:

(D) - DEMOLITION
(R) - RELOCATE
(E) - EXISTING TO REMAIN
(S) - SALVAGE

3. REFER TO SHEET G020 FOR STANDARD ABBREVIATIONS LIST.



BXUV.U050 - Fire-resistance Ratings - ANSI/UL 263

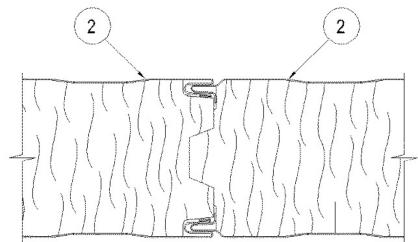
BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

Design No. U050

March 22, 2018

Nonbearing Wall Rating - 1, 2 or 3 HR (See Item 2)

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL



1. Perimeter Supports — (Not shown) may be the wall structural members, single or double sheeting angles or channels. The panel attachment flanges to be min. 2 in. (51 mm) width and min. 16 ga. Securement of sheeting angles and channels as required. As an alternate to the perimeter supports listed above when the panels are installed horizontally, a base clip channel (min. 18ga.) designed to fit the joint detail of the panels, supplied by manufacturer of panels, may be used at the bottom. Metal flashings may be installed prior to the perimeter supports.

2. Units, Partition Panel\* — Metal faced panels, nom 42 in.(1067 mm) wide by nom. 4 in.(102 mm) thick (for the 1 Hour Rating) nom. 7 in.(178 mm) thick (for the 2 Hour Rating) or nom. 8 in.(203 mm) thick (for the 3 hour rating) installed vertically or horizontally. Panels supplied factory double tongue and grove joint.

Secured to single supports, through panel into top and bottom supports (when installed vertically) or side supports (when installed horizontally) with min. No. 14 self drilling or self tapping steel screws of min. length required for full thread engagement, spaced 18 in.(457 mm) OC and 3 in.(76 mm) from each joint.

Secured to double supports and channels, through top and bottom supports into panel faces (when installed vertically) or through side supports into panel faces (when installed horizontally) with min. No. 12 self drilling or self tapping steel screws of min. length required for full thread engagement, spaced 12 in. (305 mm) OC.

For the 3 hour rating, 1/8 in.(3.2 mm) diameter steel or stainless steel pop rivets shall be installed through the tongue and groove joint 1/4 in.(6 mm) from the panel edge and 3 ft.(915 mm) on center along the length of the joint. The rivets shall be long enough to secure the exterior face of the male edge of the tongue and groove joint (single layer of metal skin) to the exterior face of the female edge of the tongue and groove joint (double layer of metal skin). As an alternate to the rivets, min. No. 6-20 x 3/8 in.(10 mm) long carbon or stainless steel self-drilling screws may be used. The rivets or screws may be eliminated on one side of

METL-SPAN, A DIVISION OF NCI GROUP, INC. — Type ThermalSafe

 $\label{eq:mbcl} \textbf{MBCI} - \text{Type Eco-Ficient}$   $\label{eq:mbcl} \textbf{CENTRIA}, \textbf{A DIVISION OF NCI GROUP, INC} - \text{Type TotalClad MW}$ 

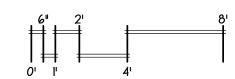
3. Caulking Compound — (Not shown) - Optional - A bead of silicone sealant may be placed into the panels joints on either or both sides of the panels.

4. **Perimeter Insulation**— (Not shown)— Any mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance stuffed at the ends of the panels at the perimeter where gaps may occur.

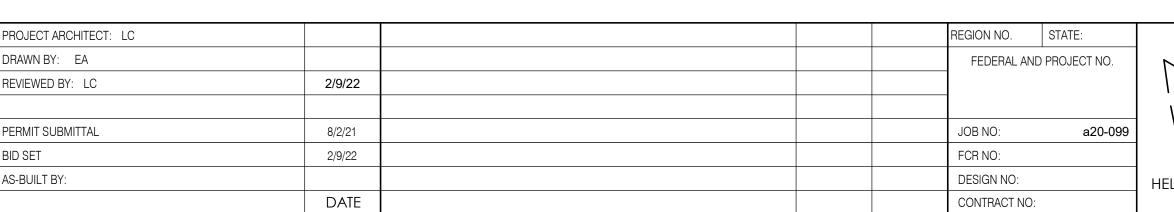
\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

<u>Last Updated</u> on 2018-03-22

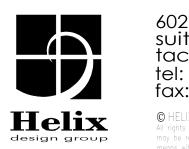
1 BUILDING SECTION



RATED ASSEMBLY







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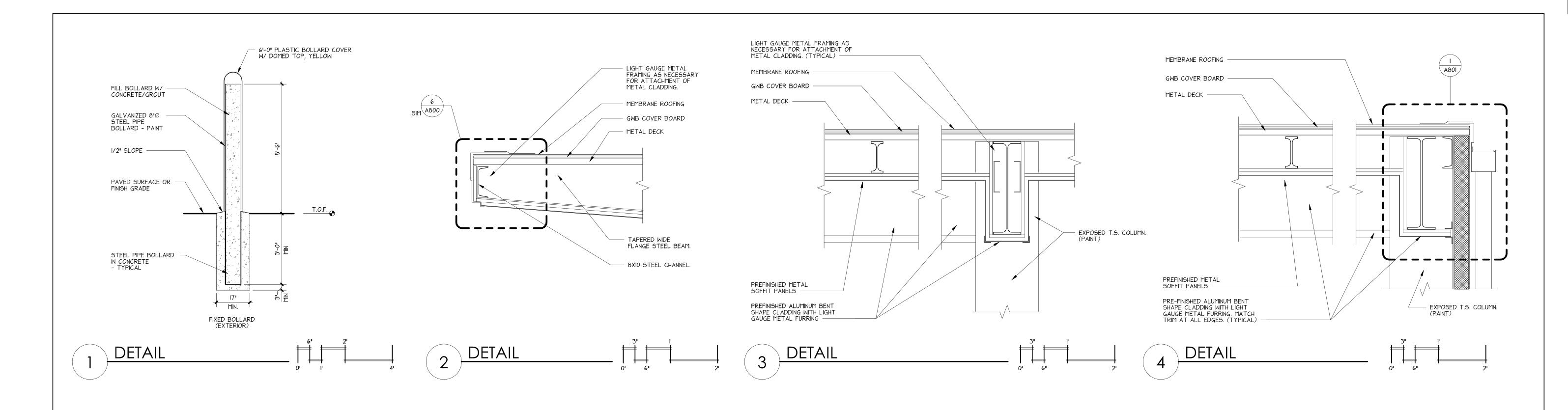


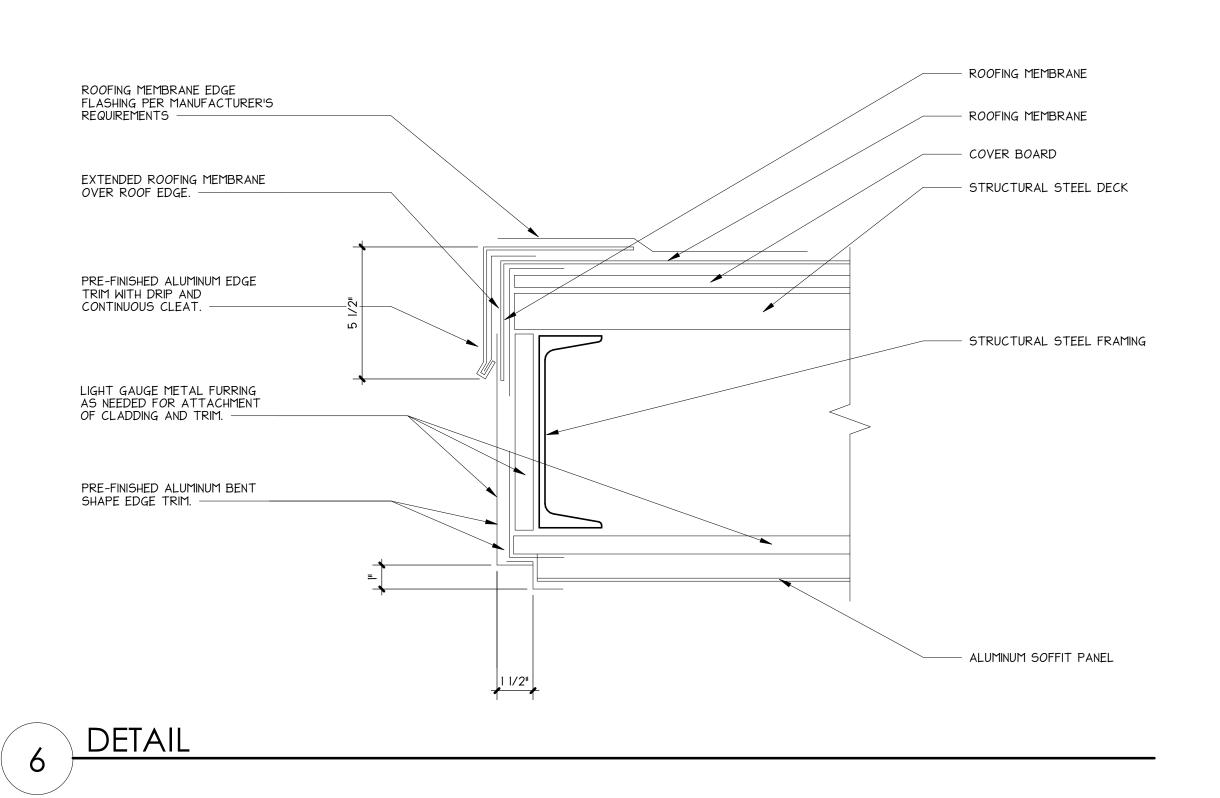
NORTHUP PREWASH RETROFIT NPDES - NWR

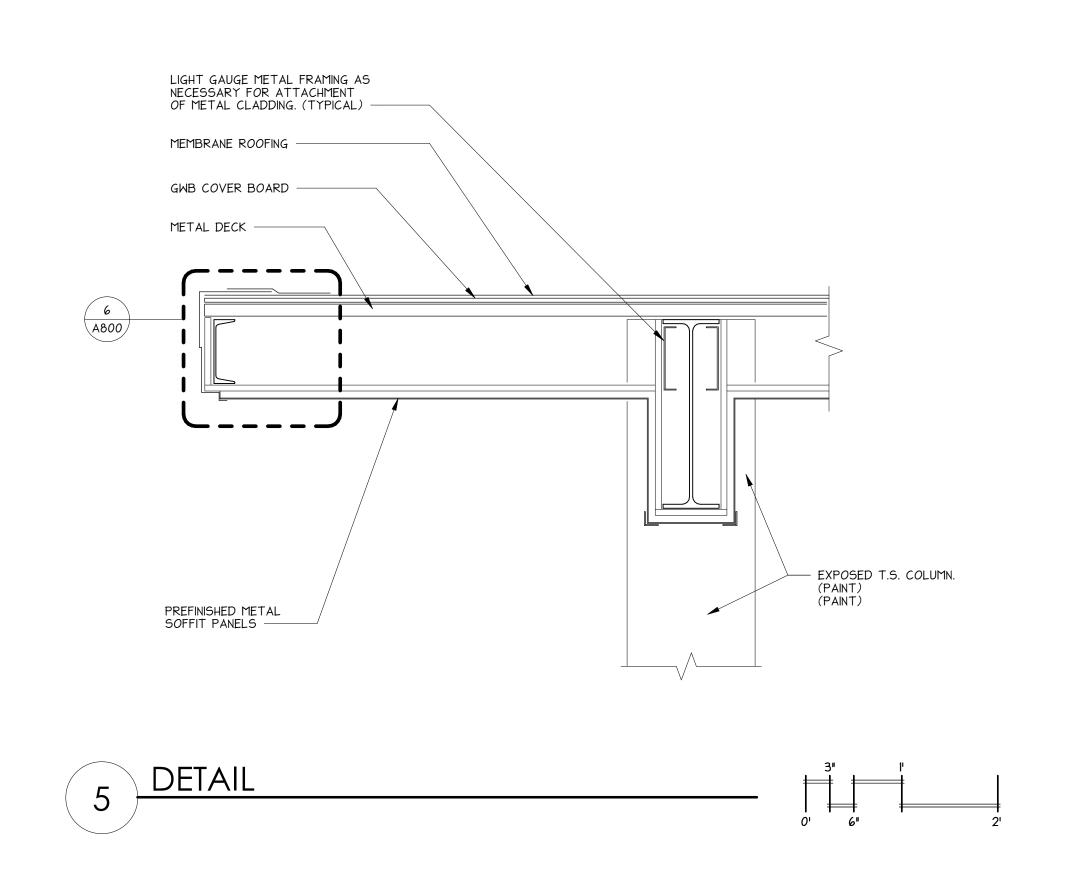
A401

**BUILDING SECTION** 

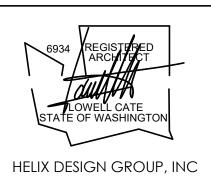








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	DATE		CONTRACT NO:		



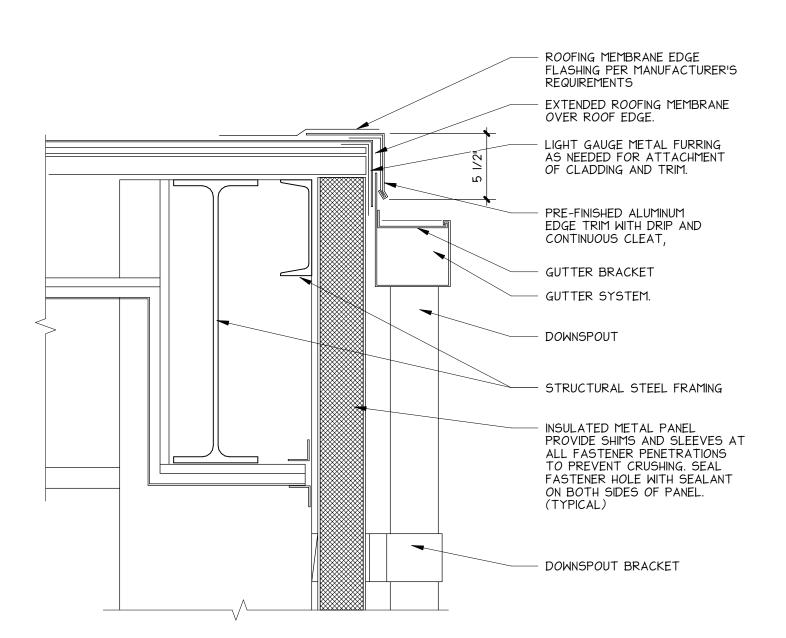


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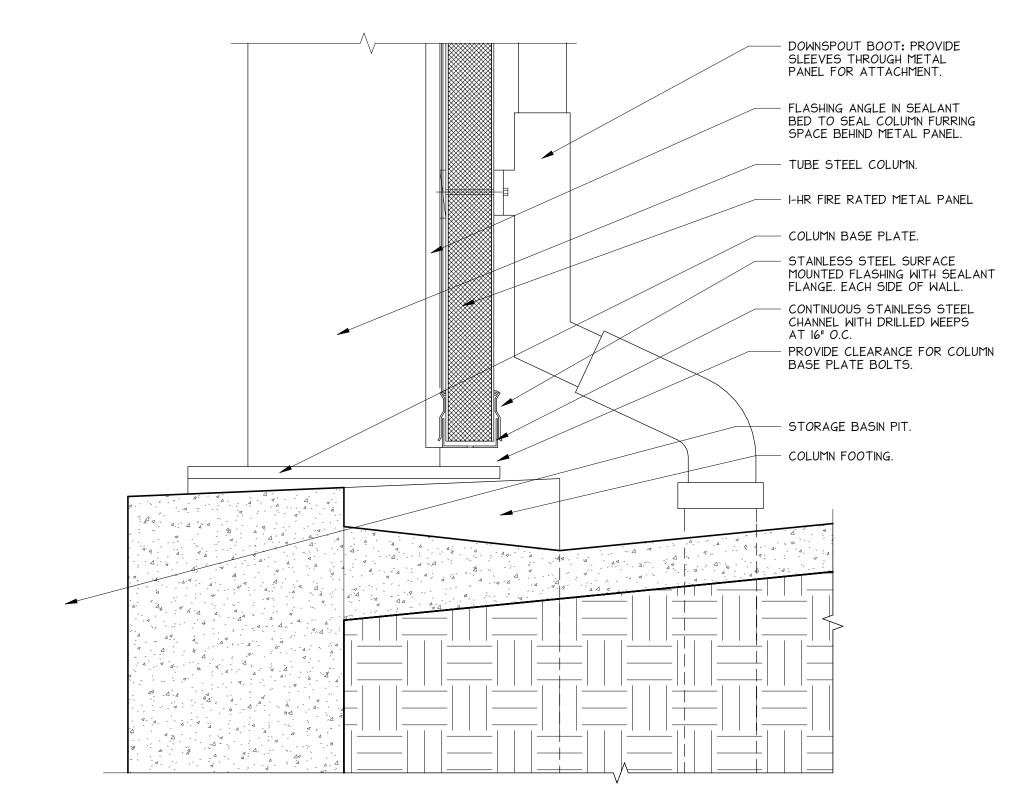


NORTHUP PREWASH RETROFIT NPDES - NWR BID SET

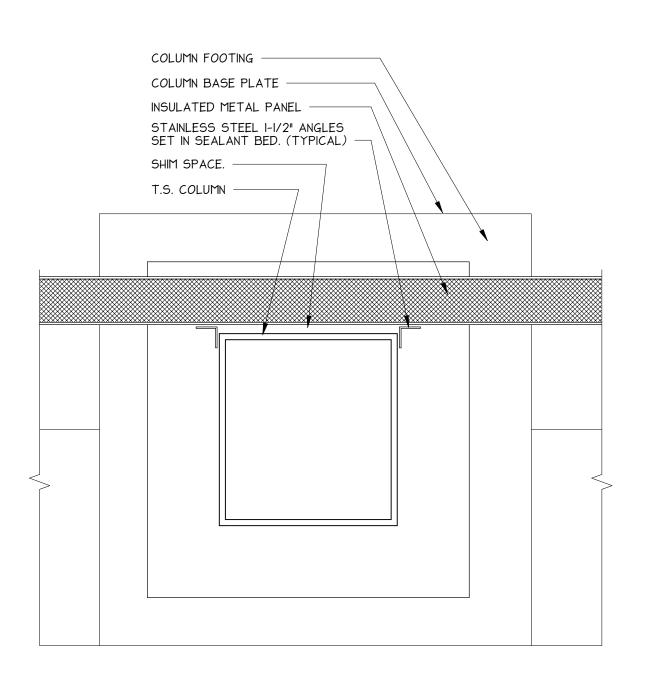
A800 SITE DETAILS



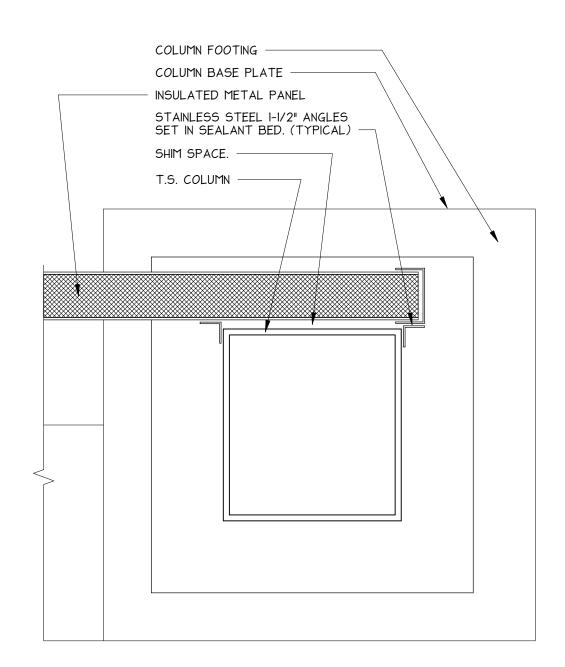
1 DETAIL



DETAIL



DETAIL



DETAIL

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Washington State
Department of Transportation
HQ CAPITAL FACILITIES

NORTHUP PREWASH
RETROFIT NPDES - NWR
BID SET

SITE DETAILS

A801

## **GENERAL NOTES:**

- 1. MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE AS ADOPTED BY THE CITY OF BELLEVUE AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 2. REFERENCE TO CODES, RULES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS OF REGULATORY AGENCIES IS TO THE LATEST PRINTED EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BID UNLESS THE DOCUMENT DATE IS SHOWN.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND FOR VERIFYING ALL DIMENSIONS BEFORE CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES AND RESOLVE BEFORE PROCEEDING WITH THE WORK.
- 4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK TO ENSURE THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST DAMAGE BY FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH THIS WORK.
- 5. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION.
  WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR
  CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION,
  SUBJECT TO REVIEW BY THE ENGINEER.
- 6. DO NOT SCALE THE DRAWINGS.
- 7. THE DRAWINGS INDICATE THE STRUCTURE IN ITS FINAL CONDITION. THE CONTRACTOR SHALL PROVIDE MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES INCLUDE, BUT MAY NOT BE LIMITED TO, BRACING, SHORING, AND SEQUENCING TO MAINTAIN STABILITY DURING CONSTRUCTION. RETAIN A REGISTERED CIVIL ENGINEER WHOM IS PROPERLY QUALIFIED TO DESIGN BRACING, SHORING, ETC. VISITS TO THE SITE BY THE ENGINEER WILL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.
- 8. THIS WORK OCCURS AT AN EXISTING FACILITY. INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT IS WITHOUT GUARANTEE OF ACCURACY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND REPORT CONFLICTS WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OR ERECTION/INSTALLATION. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE ENGINEER.
- 9. SHOP DRAWINGS, AS REQUIRED BY THE SPECIFICATIONS, SHALL BE SUBMITTED AND SHALL HAVE RECEIVED ACCEPTANCE BY THE ENGINEER PRIOR TO FABRICATION OR ERECTION/INSTALLATION.
- 10. THE ENGINEER OF RECORD WILL REVIEW BUILDING COMPONENTS ENGINEERED BY OTHERS FOR CONFORMANCE WITH THE PROJECT SPECIFICATIONS. THE ENGINEER OF RECORD IS NOT IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE COMPONENTS BUT HAS PROVIDED THE SPECIFICATIONS AND DESIGN CRITERIA TO WHICH THESE COMPONENTS ARE TO BE DESIGNED. THE ENGINEER OF RECORD HAS DESIGNED THE BUILDING STRUCTURE FOR CONCENTRIC LOADING FROM THESE COMPONENTS.
- 11. THE CONTRACTOR SHALL VERIFY THE FINAL LOCATION OF ALL EQUIPMENT, SUPPORTS, AND SEISMIC RESTRAINTS PRIOR TO FABRICATION. IDENTIFICATION OF EXISTING UTILITIES THAT INTERFERE WITH EQUIPMENT INSTALLATION IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF FIELD CONDITIONS RESTRICT THE INSTALLATION OF COMPONENTS OR RESTRAINTS SHOWN ON THE CONSTRUCTION DOCUMENTS.
- 12. THIS WORK OCCURS WITHIN/NEAR AN OPERATING FACILITY. COORDINATE ALL CONSTRUCTION ACCESS AND OPERATIONS TO AVOID DISRUPTION TO ONGOING FACILITY OPERATIONS.
- 13. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
  - A. SIZE AND LOCATION OF ALL OPENINGS, EXCEPT AS NOTED.
  - B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NONBEARING PARTITIONS.
  - C. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
  - D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS, EXCEPT AS...
  - E. FLOOR AND ROOF FINISHES.
  - F. STAIR AND LADDER FRAMING AND DETAILS, EXCEPT AS SHOWN.
  - G. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
- 14. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE..
  - A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC.. EXCEPT AS SHOWN OR NOTED.
  - B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
- C. CONCRETE INSERTS FOR FIXTURES
- D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
- E. SEISMIC BRACING REQUIREMENTS.

## DESIGN CRITERIA:

- . THE FOLLOWING NOTES APPLY UNO ON PLANS OR SPECIFICATIONS. IN THE CASE OF CONFLICT WITH PLANS OR SPECIFICATIONS, THE MORE RESTRICTIVE REQUIREMENTS SHALL APPLY. NOTES AND DETAILS IN THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL STRUCTURAL NOTES AND TYPICAL.
- 2. GRAVITY LOADS:

## ROOF:

ROOF LIVE	20 PSF
SNOW	
GROUND SNOW LOAD (Pg)	20 PSF
FLAT ROOF SNOW LOAD (Pf)	25 PSF
SNOW EXPOSURE FACTOR (Ce)	1.0
SNOW IMPORTANCE FACTOR (I)	1.0
THERMAL FACTOR (Ct)	1.2

## 3. SEISMIC (PER ASCE 7-16)

RISK CATEGORY	II			
SEISMIC IMPORTANCE FACTOR (I)	1.0			
0.2 SEC MAPPED SPECTRAL RESPONSE (Ss)	1.296 g			
1.0 SEC MAPPED SPECTRAL RESPONSE (S1)	0.451 g			
SITE CLASS	D			
0.2 SEC SPECTRAL RESPONSE COEFF(Sds)	1.04 g			
1.0 SEC SPECTRAL RESPONSE COEFF(Sd1)	0.560 g			
BASIC SEISMIC-FORCE RESISTING SYSTEM (SHELL):				
STEEL ORDINARY MOMENT FRAME	S (OMF)			
DESIGN BASE SHEAR (V)	V = Cs * BLDG WT			
SEISMIC RESPONSE COEFFICIENT (Cs)	0.31			
RESPONSE MODIFICATION FACTOR (R)	3.5			

ANALYSIS PROCEDURE USED:

**EQUIVALENT LATERAL FORCE PROCEDURE** 

## 4. WIND (PER ASCE 7-16)

,	
BASIC WIND SPEED (P)	98 MPH
EXPOSURE	С
WIND DIRECTIONALITY FACTOR (Kd)	0.85
WIND TOPOGRAPHIC FACTOR (Kzt)	0.94
GUST EFFECT FACTOR (Gf)	0.85

## **FOUNDATION AND SITE WORK:**

- 1. THE DESIGN OF THE FOUNDATION SYSTEM IS BASED UPON THE CRITERIA AND RECOMMENDATIONS CONTAINED IN THE SR-520 WSDOT NORTHUP MAINTENANCE FACILITY NEW BUILDING DATED OCTOBER 23, 2013. REPORT IS AVAILABLE FOR REVIEW.
- 2. PILE CAPACITES ARE IN THE GEOTECHNICAL REPORT LISTED ABOVE
- 3. CONTRACTOR WILL PROVIDE DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE, GROUND, OR SEEPAGE WATER AS SPECIFIED BY THE GEOTECHNICAL ENGINEER.
- 4. LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION.
- NOTIFY THE OWNER'S REPRESENTATIVE IF ANY BURIED STRUCTURES NOT INDICATED, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, UTILITIES, ETC., ARE FOUND.
- 6. SITE PREPARATION, OVEREXCAVATION/RECOMPACTION OF SOILS AND THE INSTALLATION OF FOUNDATION AND WALL DRAINS AS REQ'D SHALL BE PERFORMED IN ACCORDANCE WITH RECOMMENDATIONS PRESENTED IN THE SOILS REPORT REFERENCED ABOVE.
- 7. FILL PLACED WITHIN BUILDING PAD AREAS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND COMPACTED TO A MINIMUM OF 92 PERCENT MODIFIED PROCTOR, ASTM D1557. FILL SHALL BE PLACED UNDER OBSERVATION OF THE GEOTECHNICAL ENGINEER.
- 8. REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE.
- 9. EXCAVATIONS FOR FOUNDATIONS MUST BE ACCEPTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING REINFORCING AND CONCRETE. NOTIFY THE GEOTECHNICAL ENGINEER WHEN EXCAVATIONS ARE READY FOR INSPECTION.
- 10. PLACE BACKFILL BEHIND RETAINING WALLS AFTER CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.
- 11. MECHANICALLY COMPACT EXCAVATION BACKFILLS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

## **FORMWORK:**

- 1. FORMWORK, SHORING, AND RESHORING SHALL BE IN ACCORDANCE WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF FORMWORK, SHORING, AND RESHORING.
- 3. PROVIDE POUR POCKETS IN FORMS AND UNDER EXISTING STRUCTURAL MEMBERS AS REQUIRED TO PREVENT AIR POCKETS AND/OR THE EXISTING MEMBERS. CONCRETE CAST WITH AIR POCKETS AND/OR "HONEYCOMB" UNDER OR AROUND THE MEMBERS IS NOT ACCEPTABLE.
- 4. REMOVE FORMS AND SHORES IN ACCORDANCE WITH THE FOLLOWING:

LOCATION	REMOVE FORMS AND SHORES NO SOONER THAN
BOTTOM FORMS AND SHORES FOR MILDLY REINFORCED SLABS, BEAMS, AND GIRDERS	72 HOURS, F'C = 3500 PSI MINIMUM
SIDE FORMS FOR BEAMS	72 HOURS, F'C = 3500 PSI
COLUMNS AND WALLS	72 HOURS
FOOTINGS	48 HOURS
ELEVATED SLABS	14 DAYS

- 5. PROVIDE CURING WHERE FORMS ARE REMOVED IN LESS THAN 7 DAYS, INCLUDING BUT NOT LIMITED TO WALLS, COLUMNS, AND UNDERSIDE OF ELEVATED SLABS.
- 6. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" TYP UNO.

## REINFORCING STEEL:

- 1. ALL REINFORCING TO BE EPOXY COATED.
- 2. FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI MSP-1 "MANUAL OF STANDARD PRACTICE" AND AC1 301, "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS".
- 3. REINFORCING TO CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:

LOCATION	ТҮРЕ
REINFORCING STEEL #7 AND SMALLER	ASTM A615, 60 KSI
REINFORCING STEEL #8 AND LARGER AND REINFORCING STEEL TO BE WELDED	ASTM A706, 60 KSI

- 4. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT FROM DISPLACING DUE TO FORMWORK, CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS AT A MAXIMUM 3-FOOT SPACING.
- 5. PROVIDE REINFORCING SHOWN OR NOTED CONTINUOUS IN LENGTHS AS LONG AS PRACTICABLE. SPLICES SHALL BE LAPPED AS NOTED IN THE SPLICE TABLE.
- 5. DO NOT WELD OR BEND REINFORCEMENT IN THE FIELD UNLESS SPECIFICALLY SHOWN OR APPROVED BY STRUCTURAL ENGINEER. IF APPROVED WELD REINFORCING STEEL IN ACCORDANCE WITH AWS D1.4 USING QUALIFIED WELDERS.

## **METAL DECKING:**

- 1. ALL METAL DECK SHALL BE APPROVED BY THE ICBO, STEEL DECK INSTITUTE (SDI) AND/OR ALL GOVERNING AGENCIES.
- 2. FLOOR DECK:
  - A. THE STEEL FLOOR DECK AND ALL FLASHING SHALL BE FORMED FROM STEEL SHEETS
- ALL METAL DECK GAGES SHOWN ON THE FLOOR AND ROOF PLANS ASSUME A CONTINUOUS DECK SPANNING OVER THREE SUPPORTS. THE CONTRACTOR SHALL PROVIDE HEAVIER GAGES WHERE THIS SUPPORT CONDITIONS IS NOT ATTAINED UNLESS ADEQUATE SHORING IS PROVIDED.

## **CAST-IN-PLACE CONCRETE:**

- CONCRETE PLACEMENT AND CURING SHALL BE IN ACCORDANCE WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
- 2. CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS OTHERWISE NOTED. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE ENGINEER OF RECORD.
- 3. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND REVIEWED BY THE ENGINEER. MIX DESIGNS SHALL BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT.
- 4. ROUGHEN CONCRETE SURFACES OF CONSTRUCTION JOINTS TO ¼ INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES. LOCATE CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS. SUBMIT ALTERNATE JOINT LOCATIONS OR JOINTS NOT SHOWN TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL.
- 5. PRIOR TO PROCEEDING WITH THE WORK.
- . REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF ADDITIONAL CONCRETE CURBS AND HOUSEKEEPING PADS NOT SHOWN.
- 7. CONCRETE CLEAR COVER TO REINFORCING BARS IS AS FOLLOWS, UNLESS OTHERWISE NOTED:

	CLEARCOVER
CONCRETE PLACED AGAINST EARTH	3 INCHES
FORMED SURFACES EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: #6 BARS AND LARGE #5 BARS AND SMALLER	2 INCHES 1 1/2 INCHES
SLABS ON GRADE (TOP CLEARANCE)	1 1/2 INCHES
BEAMS, GIRDERS AND COLUMNS NOT EXPOSED TO WEATHER OR EARTH	1 1/2 INCHES
WALL OR SLAB SURFACES NOT EXPOSED TO WEATHER OR EARTH: #5 & SMALLER #6 & #7 #8,#9, #10 & #11 #14 & #18	3/4 INCH 1 INCH 1 1/2 INCHES 2 1/2

## 8. CONCRETE TYPES:

28-DAY STRENGTH	TYPE	LOCATION			
3000 PSI	NORMAL WEIGHT	CURBS, HOUSEKEEPING PADS, ETC.			
4000 PSI	NORMAL WEIGHT	FOUNDATIONS, COLUMNS, WALLS, BEAMS, SLAB ON GRADE.			

- 9. CONTINUOUSLY MOIST CURE CONCRETE SLABS FOR 7 DAYS MINIMUM. WATER FOG SPRAYS, PONDING, SATURATED ABSORPTIVE COVERS, OR MOISTURE RETAINING COVERS MAY BE USED. CURING COMPOUNDS THAT HAVE A DEMONSTRATED COMPATIBILITY WITH THE FINISH FLOORING SYSTEM MAY BE USED WHERE APPROVED BY THE OWNER'S REPRESENTATIVE.
- 10. CONCRETE FILL THICKNESS SHOWN ON THE FRAMING PLANS ARE MINIMAL THICKNESSES. NO ALLOWANCES HAVE BEEN SHOWN FOR ADDITIONAL CONCRETE FILL REQUIRED TO COMPENSATE FOR FRAME, DECK, OR FORMWORK DEFLECTIONS TO MAINTAIN SURFACE TOLERANCES SPECIFIED.
- 11. NON-SHRINK GROUT, 7000 PSI
- 12. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES UNO.
- 13. PROVIDE CONTROL JOINTS IN CONTINUOUS CONCRETE WALLS AT 32 FT OC MAX AND CONSTRUCTION JOINTS AT 96 FT OC MAX.
- 14. PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLAB-ON-GRADE AS SHOWN IN TYPICAL DETAILS SO AS TO DIVIDE SLABS INTO APPROXIMATELY RECTANGULAR ARES NOT OVER 400 SQUARE FEET WITH A RATIO OF LONG TO SHORT SIDES NOT OVER 1.5 AND SPACING NOT EXCEEDING 20'-0" ON CENTER. IN ADDITION, PROVIDE CONTROL JOINTS OFF OF ALL REENTRANT CORNERS TO INTERSECTION OF CONTROL JOINTS BEYOND. PROVIDE CONTROL JOINTS TO CONNECT OFFSET COLUMNS, PITS AND OTHER INTERRUPTIONS TO THE SLAB.

PROJECT ARCHITECT:

DRAWN BY: LMY

REVIEWED BY: LMY

REVIEWED BY: MISC

BEGION NO. 10 STATE: WASH

UB PERMIT

HEDGOOO000025

FCR NO:

AS BUILT BY:

8/2/2021 REVISION 0: ISSUED FOR PERMIT

DATE

REVISION

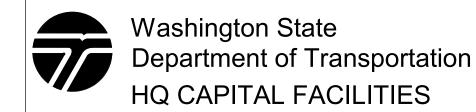
BY DATE

CONTRACT NO:





Phone: 503.223.6663



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**GENERAL NOTES** 

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## STRUCTURAL STEEL:

- 1. STRUCTURAL STEEL, DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" WITH AMENDMENTS, AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," WITH AMENDMENTS.
- 2. ALL W AND WT SECTIONS SHALL CONFORM TO ASTM A992, GRADE 50. CHANNEL AND ANGLE SHAPES SHALL BE ASTM A36. PLATES SHALL CONFORM TO ASTM A572, GRADE 50.
- STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B OR ASTM A501. MILL TEST REPORTS FOR STEEL PIPE SHALL BE SUBMITTED FOR APPROVAL.
- 4. RECTANGULAR STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE C, FY = 50 KSI. ROUND STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE C, FY = 46 KSI.
- 5. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 Gr 55, UNLESS NOTED OTHERWISE. CONNECTION BOLTS SHALL CONFORM TO ASTM A325. UNLESS NOTED OTHERWISE.
- 6. WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STANDARD D1.1 LATEST EDITION. ELECTRODES FOR SHOP AND FIELD WELDS SHALL CONFORM TO AWS A5.1 OR AWS A5.5, CLASS E70XX. SUBMIT SPECIFICATIONS OF PROPOSED SUBSTITUTE FILLER METAL FOR APPROVAL.
- 7. HOT DIP GALVANIZE IN ACCORDANCE WITH THE SPECIFICATIONS STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO THE WEATHER UNLESS OTHERWISE NOTED. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH THE SPECIFICATIONS. COAT NON-EXPOSED ELEMENTS WITH ZINC RICH PRIMER PER THE SPECIFICATIONS.
- 8. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPLICE AND CONNECTION TO BE MADE.
- 9. HEADED CONCRETE ANCHORS SHALL BE NELSON HEADED CONCRETE ANCHORS (OR APPROVED EQUAL), AND SHALL CONFORM TO ASTM A108. ANCHORS SHALL BE AUTOMATICALLY END WELDED WITH SUITABLE STUD WELDING EQUIPMENT IN THE SHOP OR IN THE FIELD. WELDING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE NELSON STUD WELDING...
- 10. DEFORMED BAR ANCHORS (DBA) SHALL BE NELSON DEFORMED BAR ANCHORS (OR APPROVED EQUAL), AND SHALL BE MADE FROM LOW CARBON STEEL CONFORMING TO ASTM A496. ANCHORS SHALL BE AUTOMATICALLY END-WELDED WITH SUITABLE WELDING EQUIPMENT IN THE SHOP OR IN THE FIELD. WELDING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE NELSON...
- 11. WELDS USED IN MEMBERS AND CONNECTIONS IN THE SEISMIC LOAD RESISTIVE SYSTEM (IE. DRAG-STRUTS, MOMENT FRAMES & BRACE FRAMES) DESIGNATED IN THE DRAWINGS AS DEMAND CRITICAL (DC) WELDS SHALL HAVE A MINIMUM CHARPY V-NOTCH (CVN) TOUGHNESS PER AISC 341 SECTION 7.3b. OTHER WELDS SHALL COMPLY WITH SECTION 7.3a.
- 12. THE METAL OF THE BEAMS, COLUMNS AND PLATES USED IN MEMBERS & CONNECTIONS IN THE SEISMIC LOAD RESISTIVE SYSTEM (IE. DRAG-STRUTS, MOMENT FRAMES & BRACE FRAMES) DESIGNATED IN THE DRAWINGS (SLRS) WITH THICKNESS AS DESIGNATED IN AISC 341 SECTION 6.3 SHALL HAVE A CVN TOUGHNESS AS LISTED IN AISC 341 SECTION 6.3
- 13. SUBMIT A WELDING PROCEDURE IN ACCORDANCE WITH AWS D1.1, 1996 APPROVED PROCEDURES TO BE SUBMITTED TO SPECIAL INSPECTOR FOR REVIEW AND APPROVAL THEN TO THE ENGINEER FOR REVIEW.
- 14. SEE FRAME ELEVATIONS FOR LOCATION OF PROTECTED ZONES FOR LATERAL RESISTIVE FRAMES. DO NOT CONNECT ANYTHING TO PROTECTED ZONES, PER AISC 341 SECTION 7.4
- 15. LOWEST ANTICIPATED SERVICE TEMPERATURE (LAST) SHALL BE 50 DEGREES FAHRENHEIT FOR INDOOR CONDITIONED STRUCTURES & 0 DEGREES FAHRENHEIT FOR OUTDOOR/UNCONDITIONED STRUCTURES.

## ADHESIVE ANCHORS AND DOWELS:

- 1. USE ANCHOR SPECIFIED ON DRAWINGS. WHERE NOT SPECIFIED, ANCHORS AND DOWELS INSTALLED INTO CONCRETE SHALL BE POWERS PE1000+ BY POWERS (ICC ESR-2583), HIT-RE 500-SD BY HILTI (ICC ESR-2322), OR SET-XP BY SIMPSON STRONG-TIE (ICC ESR-2508).
- 2. ANCHORS: ASTM F1554 GR 55 THREADED RODS WITH ASTM A 563 GRADE A NUTS AND ASTM F436 WASHERS, UNLESS OTHERWISE...
- 3. DOWELS: ASTM A615 GRADE 60 REINFORCING STEEL
- 4. REMOVE GREASE, OIL, RUST, AND OTHER LAITANCE FROM RODS AND DOWELS PRIOR TO INSTALLATION.
- 5. PLACE ADHESIVE WITH THE MANUFACTURER'S RECOMMENDED APPLICATION TOOL TO A DEPTH AS SPECIFIED BY THE MANUFACTURER AND TO MINIMIZE THE AMOUNT OF ADHESIVE THAT WILL OVERFLOW OUT OF THE HOLE WHEN THE BAR IS INSERTED. REMOVE EXCESS ADHESIVE ON THE ADJACENT...
- 6. INSERT THE ANCHOR OR DOWEL IN THE HOLE WITH A TWISTING MOTION TO THE REQUIRED EMBEDMENT DEPTH. DO NOT PUMP THE ANCHOR OR DOWEL IN AND OUT OF THE HOLE.
- 7. WEDGE BARS TIGHT AND CENTERED IN THE HOLE WITH WOODEN WEDGES TO HOLD IT IN PLACE UNTIL THE ADHESIVE SETS.
- 8. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NE...
- 9. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH ADHESIVE ANCHORS.

## STRUCTURAL OBSERVATIONS:

1. IN ACCORDANCE W/IBC CH 17 AND AT THE DIRECTION OF THE ENGINEER OF RECORD THE FOLLOWING ITEMS REQUIRE PERIODIC STRUCTURAL OBSERVATION. NOTIFY ENGINEER OF RECORD AT LEAST 48 HOURS BEFORE A DESIGNATED WORK IS TO BE COVERED.

LOCATION	TYPE
1. FOUNDATION	REINFORCING STEEL
2. METAL DECKING	DECK ATTACHMENT

1

## DEFERRED SUBMITTALS:

## LOCATION

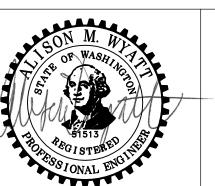
1. CROSS-OVER STAIR

## 2. FALL PROTECTION ANCHORS

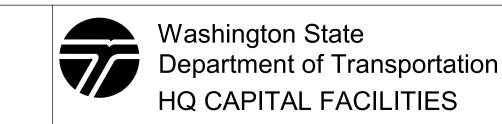
DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON, AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO FABRICATION. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE CITY OF BELLEVUE BUILDING...

FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

	DATE	REVISION	BY	DATE	CONTRACT NO:
AS BUILT BY:	8/2/2021	REVISION O: ISSUED FOR PERMIT	LMY	8/2/2021	DESIGN NO:
	11/19/2021	REVISION 1: UPDATED FOR PERMIT	LMY	11/19/2021	FCR NO:
REVIEWED BY: MISC					HEDG00000025
REVIEWED BY: LMY					UB PERMIT
DRAWN BY: LMY					FEDERAL AID PROJECT NO.
PROJECT ARCHITECT:					REGION NO. 10 STATE: WASH







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**GENERAL NOTES** 

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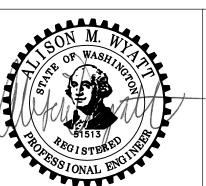
	REQUIRE	D GEOTECHNI	ABLE 1 ICAL SPE	CIAL INS	SPECTIONS
<u> </u>		INSPECT			
SYSTEM or MATERIAL	IBC CODE	C CODE or		UENCY	REMARKS
	REFERENC E	STANDARD	Continu	Periodic	_
			SOILS		
GEOTECHNICAL INVESTIGATIONS	1803				GEOTECHNICAL INVESTIGATION SHALL INCLUINTEMS OF SPECIAL INSPECTION AND TESTING
VERIFY FOOTING BEARING CAPACITY AND SUBGRADE PREPARATION FOR FILLS	TABLE	GEOTECHNICAL		X (a)	
FILL MATERIAL VERIFICATION	1705.6	REPORT	X		BY THE GEOTECHNICAL ENGINEER
FILL PLACEMENT & COMPACTION			X		
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING	TABLE 1705.6			X (a)	BY THE GEOTECHNICAL ENGINEER
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	TABLE 1705.6			x	
PERFORM CLASSIFICATION OF COMPACTED FILL MATERIALS	TABLE 1705.6 1803.5.1			x	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	TABLE 1705.6		x		BY THE GEOTECHNICAL ENGINEER
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY				x	
INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	TABLE 1705.8		x		
VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	TABLE 1705.8		x		
FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	TABLE 1705.8			x	

		TA	BLE 2		
	REQUIRE	D STRUCTUR	AL SPEC	IAL INSF	PECTIONS
		INSPECTION	ON		
SYSTEM or MATERIAL	IBC CODE	CODE or	FREQ	UENCY	REMARKS
	REFEREN CE	STANDARD REFERENCE	Continuo us	Periodic	
VERIFICATION OF FRAME JOINT DETAILS INCLUDING MEMBER AND COMPONENT LOCATIONS, BRACING, AND STIFFENERS	TABLE 1705.2			X (a)	
MATERIAL VERIFICATION OF REINFORCING STEEL FOR WELDING		ACI 318: 3.5.2 AWS D1.4		х	CERTIFIED MILL TEST REPORTS
WELDING REINFORCING EXCEPT AS NOTED OTHERWISE	TABLE			Х	
WELDING REINFORCING STEEL IN SHEAR WALL BOUNDARY ELEMENTS	1705.2		х		ALL WELDS VISUALLY INSPECTED PER AWS D1.4.7.5
WELDING SHEAR REINFORCEMENT			х		ALL WELDS VISUALLY INSPECTED PER AWS D1.4.7.5

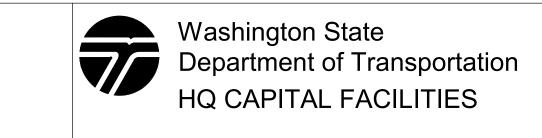
	REQUIR	ED STRUCTURA		IAL INSI	PECTIONS
SYSTEM or MATERIAL	IBC CODE REFEREN CE			JENCY Periodic	REMARKS
		FABR	ICATORS		
FABRICATORS	1704.2.5			X	SPECIAL INSPECTIONS APPLY TO VERIFICATION OF DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES INCLUDING REVIEW FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS
		CON	ICRETE		
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	1909.1	ACI 318: 3.8.6, 8.1.3, 21.1.8		X (a)	
REINFORCING STEEL AND PRESTRESSING TENDON PLACEMENT	1705.3 1910.4 1901.3.2	ACI 318: 3.5 ACI 318: 7.1-7.7		x	TOLERANCES AND REINFORCING PLACEMENT PER ACI 7.5; SPACING LIMITS FOR REINFORCING ACI 7.6
WELDING REINFORCING STEEL	1705.2.2.1 1903.1	ACI 318: 3.5.2 AWS D1.4	x		REFER TO STEEL FOR WELDING REQUIREMENTS TABLE 1704.3, ITEM 5b
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	TABLE 1705.3	AWS D1.4 ACI 318: SECTION 3.5.2		х	
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT		AWS D1.4 ACI 318: SECTION 3.5.2	X (b)		
3) SHEAR REINFORCEMENT		AWS D1.4 ACI 318: SECTION 3.5.2	x		
4) OTHER REINFORCING STEEL.	TABLE 1705.3	AWS D1.4 ACI 318: SECTION 3.5.2		Х	
PLACEMENT OF BOLTS INSTALLED IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED	TABLE 1705.3 1908.5 1909.1	ACI 318: 1.3.2.C ACI 318: 8.1.3 ACI 318: 21.1.8	x		ALL BOLTS VISUALLY INSPECTED
VERIFYING USE OF REQUIRED MIX DESIGN(S)	TABLE 1705.3 1904 1910.2-3 1901.2.1	ACI 318: CHAPTER 4 ACI 318: 5.2-5.4		X	
CONCRETE PLACEMENT	TABLE 1705.3	ACI 318: 1.3.2.D ACI 318: 5.9 - 5.10	x		
SHOTCRETE PLACEMENT	TABLE 1705.3 1910.6-8		x		
CONCRETE PLACEMENT AT COMPOSITE SLABS	TABLE 1705.3	ASCE 9, CHAPTER 3	x		
CONCRETE/SHOTCRETE CURING	TABLE 1705.3 1910.9	ACI 318: 1.3.2.D ACI 318: 5.11-5.13		X (a)	
ERECTION OF PRECAST MEMBERS	TABLE 1705.3	ACI 318: CHAPTER 16		X (a)	ALL CONNECTIONS VISUALLY INSPECTED REFER TO ANCHOR BOLT WELDING REQUIREMENTS AND STRUCTURAL INTEGRITY PROVISIONS
VERIFICATION OF IN-SITU CONCRETE PRIOR TO REMOVAL OF FORMS AND SHORES FROM STRUCTURAL SLABS	TABLE 1705.3	ACI 318: 6.2		X (a)	
VERIFICATION OF FORMWORK	TABLE 1705.3	ACI 318: 6.1.1		X (a)	SPECIAL INSPECTIONS APPLY TO SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED

	REQUIR	ED STRUCTURA		PECTIONS	
SYSTEM or MATERIAL	IBC CODE			UENCY	REMARKS
STSTEM OF MATERIAL	REFEREN CE		Continuo	Periodic	LIMANNO
		S <sup>-</sup>	L us ΓEEL		
FABRICATION OF STRUCTURAL ELEMENTS	1704.2.5			х	REFER TO INSPECTION OF FABRICATOR REQUIREMENTS
MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD FORMED STEEL DECK	1705.2 2203.1	ASTM A6 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS  AISC 360 A3.1 AISC 360 M5.5		x	CERTIFIED MILL TEST REPORTS
MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS, AND WASHERS	1705.2.1.1	ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS RCSC 2.1		x	MANUFACTURER'S CERTIFIED TEST REPORTS
MATERIAL VERIFICATION OF ANCHOR BOLTS AND THREADED RODS	1705.2	AISC 360 A3.4 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS		x	MANUFACTURER'S CERTIFIED TEST REPORTS
MATERIAL VERIFICATION OF WELD FILLER METALS	1705.2.2.1	AISC 360 A3.5 APPLICABLE AWS A5 DOCUMENTS		x	MANUFACTURER'S CERTIFIED TEST REPORTS
VERIFYING USE OF PROPER WPS'S				х	COPY OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS				Х	COPY OF QUALIFICATION CARDS
COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	1705.2.2.1	AWS D1.1 SECTION 6	x		
MULTIPASS FILLET WELDS			х		
SINGLE PASS FILLET WELDS GREATER THAN 5/16"	1705.2.2.1	AWS D1.1,	Х		ALL WELDS VISUALLY INSPECTED PER AWS D1.1 6.9
PLUG AND SLOT WELDS	TABLE 1705.2	SECTION 6	X		_
SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"				х	
INSTALLATION OF COMPOSITE SLAB DECKING	TABLE 1705.2 1705.1.1	ICC EVALUATION REPORT ASCE 9 CHAPTER 3		x	SPECIAL INSPECTIONS APPLY TO DECKING TYPE, DEPTH, GAGE, AND FASTENING
INSTALLATION OF ROOF DECKING	TABLE 1705.2	ICC EVALUATION REPORT		x	SPECIAL INSPECTIONS APPLY TO DECKING TYPE, DEPTH AND GAGE, POWER ACTUATED FASTENERS, SCREWS, PROPRIETARY SIDE SEAM ATTACHMENTS BUTTON PUNCHES AND SHEAR CONNECTORS
FLOOR AND ROOF DECK WELDS		AWS D1.3 SECTION		Х	ALL WELDS INSPECTED PER AWS D1.3 7.1
WELDING STUDS EXCEPT AS NOTED OTHERWISE	TABLE		X		
WELDING STUDS IN STRUCTURAL DIAPHRAGMS	TABLE 1705.2	AWS D1.1 SECTION 7		х	ALL WELDS VISUALLY INSPECTED PER AWS D1.1 7.8.1
WELDING STAIR AND RAILING SYSTEMS	<u> </u> 	AWS D1.1 SECTION		Х	ALL WELDS VISUALLY INSPECTED PER AWS D1.1 6.9
SNUG-TIGHT HIGH STRENGTH BOLT INSTALLATION	TABLE 1705.2	6  RCSC SPECIFICATION		X	ALL CONNECTIONS INSPECTED AND VERIFIED SNUG

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REVIEWED BY: MISC					HEDG00000025	A
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	DATE	REVISION	BY	DATE	CONTRACT NO:	







NORTHUP PREWASH RETROFIT NPDES - NWR	

BID SET

CITY OF BELLEVUE,

S003
WA

SPECIAL INSPECTION

OF SHEETS

		TAE	BLE 2		
	REQUIR	ED STRUCTURA	L SPEC	IAL INSF	PECTIONS
		INSPECTIO	N		
SYSTEM or MATERIAL	IBC CODE		FREQUENCY		REMARKS
	REFEREN CE	STANDARD REFERENCE	Continuo us	Periodic	
	RAMING				
MATERIAL VERIFICATION OF WELD FILLER METALS				x	MANUFACTURER'S CERTIFIED TEST REPORTS
VERIFYING USE OF PROPER WPS'S	1705.2	AWS D1.3 SECTION 7		x	COPY OF WELDING PROCEDURE SPECIFICATIONS
COLD-FORMED STEEL ROOF AND FLOOR DECKS	1705.2	AWS D1.3		х	WELDING INSPECTION AND INSPECTOR QUALIFICATION
VERIFYING WELDER QUALIFICATIONS	1705.2			X	COPY OF QUALIFICATION CARDS
WELDED FRAMING CONNECTIONS		AWS D1.3 SECTION 7		X	ALL WELDS VISUALLY INSPECTED PER AWS D1.3 7.
	ı	POST INSTALLED C	ONCRET	E ANCHO	RS
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	TABLE 1705.3 1909.1	ICC EVALUATION REPORT ACI 318: 3.8.6, 8.1.3, 21.1.8		x	SPECIAL INSPECTIONS APPLY TO ANCHOR PRODUCT NAME, TYPE, AND DIMENSIONS, HOLE DIMENSIONS, COMPLIANCE WITH DRILL BIT REQUIREMENTS, CLEANLINESS OF THE HOLE AND ANCHOR, ADHESIVE EXPIRATION DATE, ANCHOR/ADHESIVE INSTALLATION, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE

		TAE	BLE 5		
	REQUIR	ED TESTING fo	r SPECIA	AL INSPE	ECTIONS
		TESTING			
			FREQ	UENCY	
SYSTEM or MATERIAL	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	Continuo us	Periodic	REMARKS
		GEOTE	CHNICAL		
GEOTECHNICAL ENGINEER TO PERFORM TESTING OF COMPACTED	1803				TESTING PER GEOTECHNICAL REPORT
FILL IN-PLACE DENSITY OR PREPARED SUBGRADE DENSITY		VARIES; MINIMUM PER IBC APPENDIX J107.5		X (a)	BY THE GEOTECHNICAL ENGINEER
MATERIAL VERIFICATION	1705.6	VARIES; CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		X (a)	BY THE GEOTECHNICAL ENGINEER
		CON	CRETE		
AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	TABLE 1705.3	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	x		FABRICATE SPECIMENS AT TIME FRESH CONCRETE IS PLACED  ONCE EACH DAY FOR A GIVEN CLASS OF CONCRETE, OR LESS THAN ONCE FOR EACH 150 YDS OF CONCRETE, OR LESS THAN ONCE FOR EACH 5,000 FT2 OF SURFACE AREA FOR SLABS/WALLS. ONCE EACH SHIFT FROM IN-PLACE
CONCRETE STRENGTH	TABLE 1705.3 1903 1904	ASTM C39	x		WORK OR FROM TEST PANEL AND MINIMUM ONE SPECIMEN FOR EACH 50 CUBIC YARDS. "PRECONSTRUCTION TESTS AS REQUIRED PER TH BUILDING OFFICIAL."
CONCRETE SLUMP		ASTM C143	X		
CONCRETE AIR CONTENT	1	ASTM C231	X		
CONCRETE TEMPERATURE		ASTM C1064	X		
SHOTCRETE STRENGTH	1705.3 1910.10	ASTM C39	x		IBC 1913.10.1: SPECIMENS SHALL BE TAKEN FROM THE IN-PLACE OR FROM TEST PANELS, AND SHALL BE TAKEN AT LEAST ONCE EACH SHIFT, BUT NOT LESS THAN ONE FOR EACH 50 CUBIC YARDS OF SHOTCRETE

		TAE	BLE 5		
	REQUIR	ED TESTING fo	r SPECIA	AL INSPE	CTIONS
		TESTING			
			FREQ	UENCY	
SYSTEM or MATERIAL	IBC CODE REFERENC E	CODE or STANDARD REFERENCE	Continuo us	Periodic	REMARKS
		ST	EEL		
MAGNETIC PARTICLE (MT) AND ULTRASONIC (UT) TESTING OF WELDS	1705.2.1	MT - AWS D1.1 6.14.4 UT - AWS D1.1 6.13 & 6.14.3	PER DR	AWINGS	
PRE-CONSTRUCTION TESTING OF WELDING STUDS	1705.2	AWS D1.1 7.7.1	TYPE OF S	IZE AND STUD EACH IIFT	
PRE-INSTALLATION TESTING OF WELDING STUDS WELDED THROUGH DECKING	1705.2	AWS D1.1 7.6	EACH STUD SIZE AND DECK GAGE COMBINATION		
PRE-INSTALLATION VERIFICATION OF PRETENSIONED HIGH STRENGTH BOLTS	1705.2.1.1	RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR	EACH COMBINATION OF DIAMETER, LENGTH, GRADE, AND LOT TO BE USED IN THE WORK		

		TA	BLE 6		
REQU	JIRED SF	PECIAL INSPEC	ΓΙΟΝS for	SEISMI	C RESISTANCE
		INSPECTION	DN		
SYSTEM or MATERIAL	IBC CODE	CODE or	FREQUENCY		REMARKS
	REFERE	STANDARD	Continu	Periodic	
		S	TEEL		
WELDING OF THE SEISMIC FORCE- RESISTING SYSTEM	1705.11.1	AISC 341 Q5.1 AWS D1.1 SECTION 6	SPECIAL IN CLEARLY II IBC 1707.2 TESTING F SYSTEM TO REQUIREM IN RESPON PROVIDED SHOULD BI AISC 341 A 341 INCLUE	SPECTION NDICATE T AND 1708.3 OR STRUC O COMPLY ENTS OF A SIBLE CHA TO THE CO E CLEARLY PPENDIX O DES COMM	F GUIDELINES FOR FABRICATOR AND WELDING REQUIREMENTS. ENGINEER OF RECORD TO HE SCOPE OF INSPECTIONS ON DRAWINGS.  3 REQUIRE SPECIAL INSPECTIONS AND RELATED TURAL STEEL FOR THE SEISMIC FORCE RESISTING WITH THE QUALITY ASSURANCE PLAN AISC 341. THE REGISTERED DESIGN PROFESSIONAL ARGE SPECIFIES THE QA PLAN WHICH SHOULD BE ONTRACTOR AS PART OF THE BID DOCUMENTS AND IDENTIFIED AS SUCH. AISC RECOMMENDS THAT Q, "QUALITY ASSURANCE PLAN", BE ADOPTED. AISC ENTARY WHICH WILL BE HELPFUL TO ENGINEERS T QA PLANS.
		COLD-FORMED	STEEL F	RAMING	
WELDING OF THE SEISMIC-FORCE-RESISTING SYSTEM		AWS D1.3 SECTION 7		x	ALL WELDS VISUALLY INSPECTED PER AWS D1.3 7.1
CONNECTIONS FOR DIAPHRAGM ATTACHMENT, DIAPHRAGM CHORDS, COLLECTORS AND BRACING, AND SHEAR WALL FASTENING, ANCHORAGE AND HOLDOWNS	1705.11.3			x	ALL CONNECTIONS VISUALLY INSPECTED
		ARCHI	L ΓECTURAL		
INSTALLATION AND ANCHORAGE OF SUSPENDED CEILING SYSTEMS	1705.11.8	ASCE 7-05 Section 13.5.6		X (a)	
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED ARCHITECTURAL SYSTEMS AND THEI	1705.11.5			X (a)	

		TESTING	;				
SYSTEM or MATERIAL	IBC CODE	CODE or	FREQ	UENCY	REMARKS		
	REFEREN CE	STANDARD REFERENCE	Continu	Periodic			
		CONCRETE R	REINFORC	EMENT			
TEST A615 REINFORCEMENT USED TO RESIST EARTHQUAKE INDUCED LOAD IN SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS, AND END COUPLING BEAMS CONNECTING STRUCTURAL WALLS IN STRUCTURE ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E AND F	1705.12.1	ACI 318: 21.1.5.2	X (b)	X (a)	NOT REQUIRED WHEN CERTIFIED MILL TEST REPORTS ARE PROVIDED		
TEST A615 REINFORCEMENT FOR WELDABILITY WHEN SUCH REINFORCEMENT IS TO BE WELDED	1705.12.1	ACI 318: 3.5.2		X (a)			
		S	TEEL				
UT OF BASE METAL THICKER THAN 1-1/2" SUBJECT TO THROUGH-THICKNESS WELD SHRINKAGE STRAINS	1705.12.2	AISC 341 Q5.2 AWS D1.1 6.13 & 6.14.3	ADJACEN	ND AND T TO EACH ELD			
MT OF K-AREA OF ROLLED WIDE FLANGE COLUMN WEBS ADJACENT TO DOUBLER/CONTINUITY PLATE WELDS	1705.12.2	AISC 341 Q5.2 AWS D1.1 6.14.4	DRAWINGS FOR				
MAGNETIC PARTICLE (MT) AND ULTRASONIC (UT) TESTING OF COMPLETE JOINT PENETRATION GROOVE (CJP) WELDS IN MATERIALS 5/16" THICK AND GREATER	1705.12.2	AISC 341 Q5.2 MT - AWS D1.1 6.14.4 UT - AWS D1.1 6.13 & 6.14.3			IBC 1707.2 AND 1708.3 REQUIRE SPECIAL INSPECTIONS AND RELATED TESTING FOR STRUCTURAL STEEL FOR THE SEISMIC FORCE RESISTING SYSTEM TO COMPLY WITH THE QUAL ASSURANCE PLAN REQUIREMENTS OF AISC 341. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SPECIFIES THE QA PLAN		
MT OF THERMALLY CUT SURFACES OF BEAM COPES AND ACCESS HOLES AT WELDED SPLICES AND CONNECTIONS WHEN THE FLANGE THICKNESS EXCEEDS 1 1/2" FOR ROLLED SHAPES OR THE WEB THICKNESS EXCEEDS 1 1/2" FOR BUILT-UP SHAPES	1705.12.2	AISC 341 Q5.2 AWS D1.1 6.14.4	EACH LOCATION		WHICH SHOULD BE PROVIDED TO THE CONTRACTOR AS PART OF THE BID DOCUMENTS AND SHOULD BE CLEARLY IDENTIFIED AS SUCH. AISC RECOMMENDS THAT AISC 341 APPENDIX Q, "QUALITY ASSURANCE PLAN", BE ADOPTED. AISC 341INCLUDES COMMENTARY WHICH WILL BE HELPFUL TO ENGINEERS SPECIFYING PROECT Q PLANS.		
MT OF THE WELD AND ADJACENT AREA IN A REDUCED BEAM SECTION (RBS) PLASTIC HINGE REGION REPAIRED BY WELDING	1705.12.2	AISC 341 Q5.2 AWS D1.1 6.14.4	EACH L	OCATION			
MT OF THE ENDS OF FLANGE WELDS FROM WHICH WELD TABS HAVE BEEN REMOVED	1705.12.2	AISC 341 Q5.2 AWS D1.1 6.14.4	EACH L	OCATION			

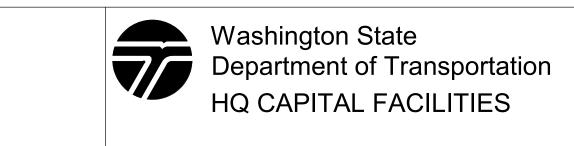
		TA	ABLE 8		
REC	QUIRED SI	PECIAL INSPE	CTIONS	or WIND	RESISTANCE
		INSPECTI	ON		
SYSTEM or MATERIAL	IBC CODE REFERE	CODE or STANDARD	OTANDADD		REMARKS
ROOF CLADDING AND ROOF FRAMING CONNECTIONS	1705.10		Continu	Periodic X (a)	
WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING	1705.10			X (a)	
ROOF AND FLOOR DIAPHRAGM SYSTEMS, INCLUDING COLLECTORS, DRAG STRUTS AND BOUNDARY ELEMENTS	1705.10			X (a)	
VERTICAL WIND-FORCE-RESISTING SYSTEMS, INCLUDING BRACED FRAMES, MOMENT FRAMES AND SHEAR WALLS	1705.10			X (a)	REFER TO TABLE 2: REQUIRED STRUCTURAL SPECIAL INSPECTIONS
CONTINUOUS SPECIAL INSPECTION IS REQUIRED DURING FIELD GLUING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLD-DOWNS	1705.10.1			X (a)	

CITY OF BELLEVUE,

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PROJECT ARCHITECT:					REGION NO. 10 STATE: WASH	







NORTHUP PREWASH RETROFIT NPDES - NWR	
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**S004** 

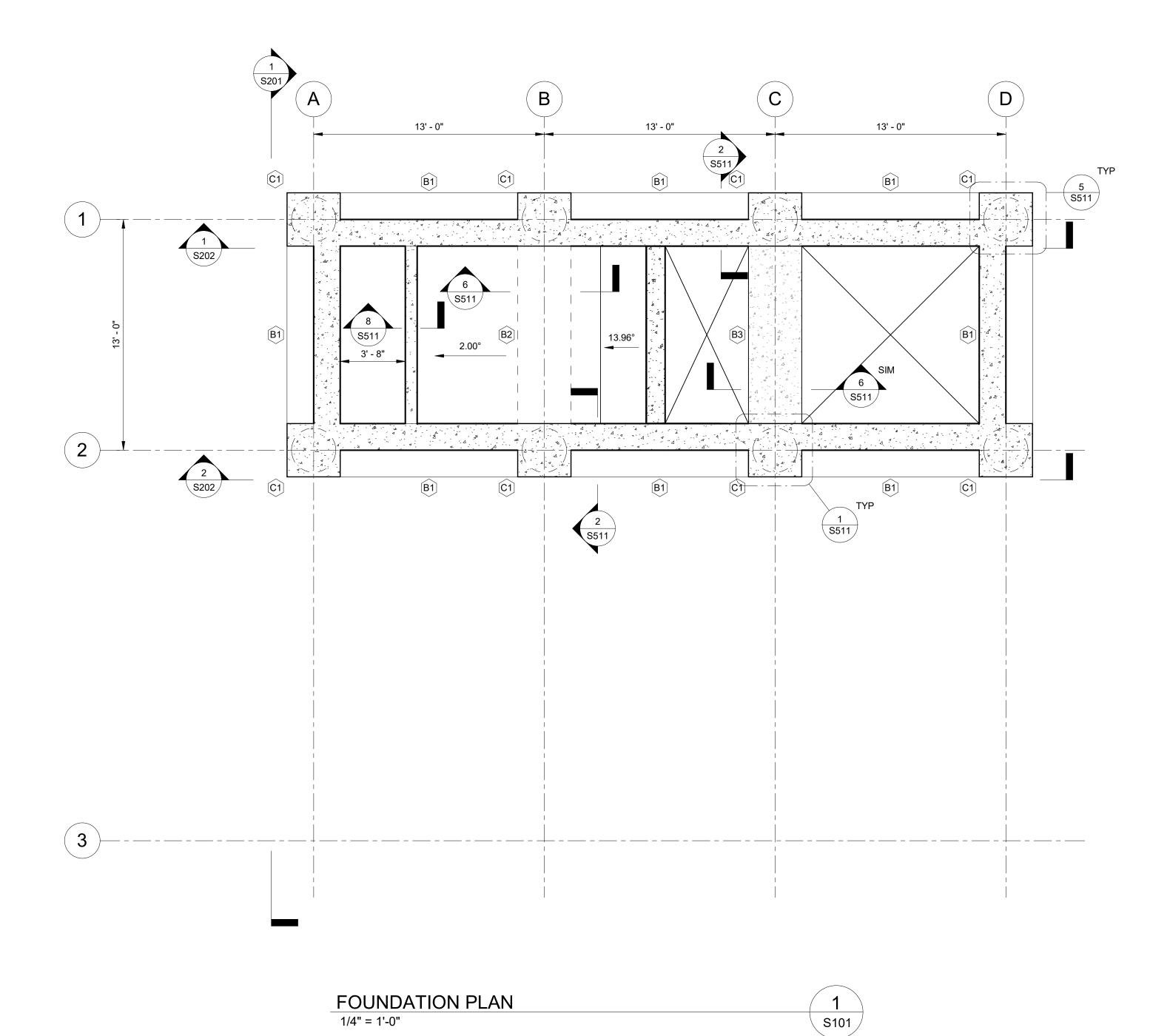
SPECIAL INSPECTION

WA SHEETS

CONCRETE COLUMN SCHEDULE							
	DIMENSIONS			STEEL REINF	ORCING		
MARK	WIDTH	LENGTH	LONGITUDINAL	TRANSVERSE	REMARKS		
C1	3'-0"	3'-0"	(12) - #10	#3 @ 18"	SEE DETAIL 1/S511 OR 5/S511		

GRADE BEAM SCHEDULE									
		DI	MENSIONS	STEEL REINFORCING					
MARK	WIDTH	DEPTH	NOTES	LONGITUDINAL	TRANSVERSE	REMARKS			
B1	3'-0"	2'-0"	-	(5) - #7	#4 @ 12"	TOP AND BOTTOM			
B2	3'-0"	2'-3"	INTEGRAL WITH SLAB	(5) - #7	#4 @ 12"	TOP AND BOTTOM			
B3	3'-0"	4'-9"	INTERGRAL WITH SLAB	(5) - #7	#4 @ 12"	TOP AND BOTTOM			

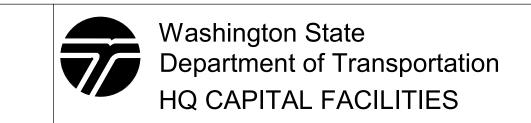
	FOUNDATION PLAN NOTES
Α	SEE GENERAL NOTES FOR REINFORCEMENT LAP SPLICE LENGTH
В	VERIFY ALL GRID/COLUMN LOCATIONS/DIMENSIONS WITH ARCH
С	SEE TYPICAL CONCRETE DETAILS ON SHEETS S500, S501, S502, AND S511



N3 BOILT BT.	DATE	REVISION	BY	DATE	CONTRACT NO:	ĺ
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PROJECT ARCHITECT:					REGION NO. 10 STATE: WASH	





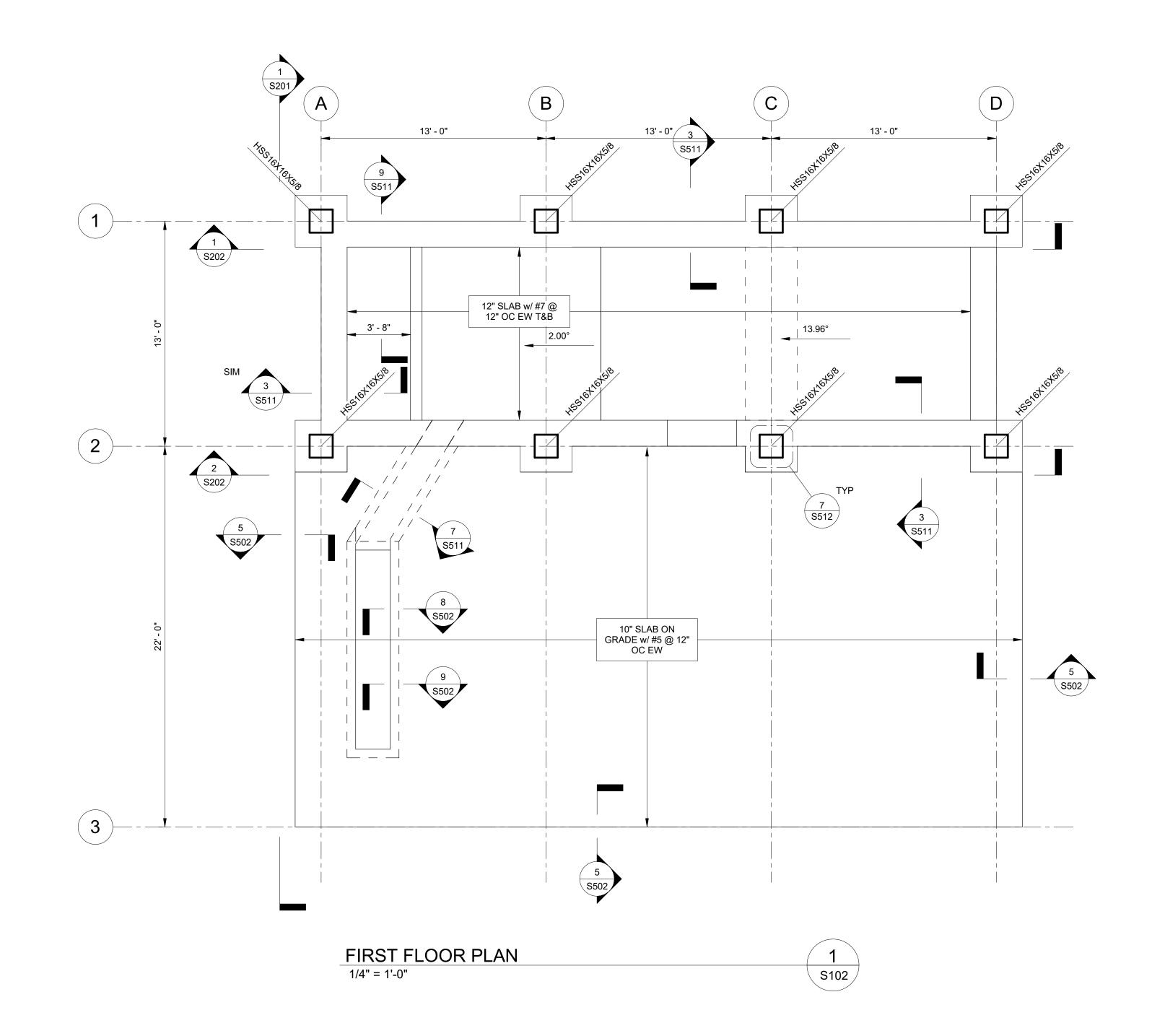


NORTHUP PREWASH RETROFIT NPDES - NWR
BID SET

**S101** CITY OF BELLEVUE, WA

SHEETS

**FOUNDATION PLAN** 



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7	Washington State Department of Transportation
	HQ CAPITAL FACILITIES

NORTHUP PREWA	ASH RETROFIT NPDES - NWR
	BID SET

CITY OF BELLEVUE, WA

**1ST FLOOR PLAN** SHEETS

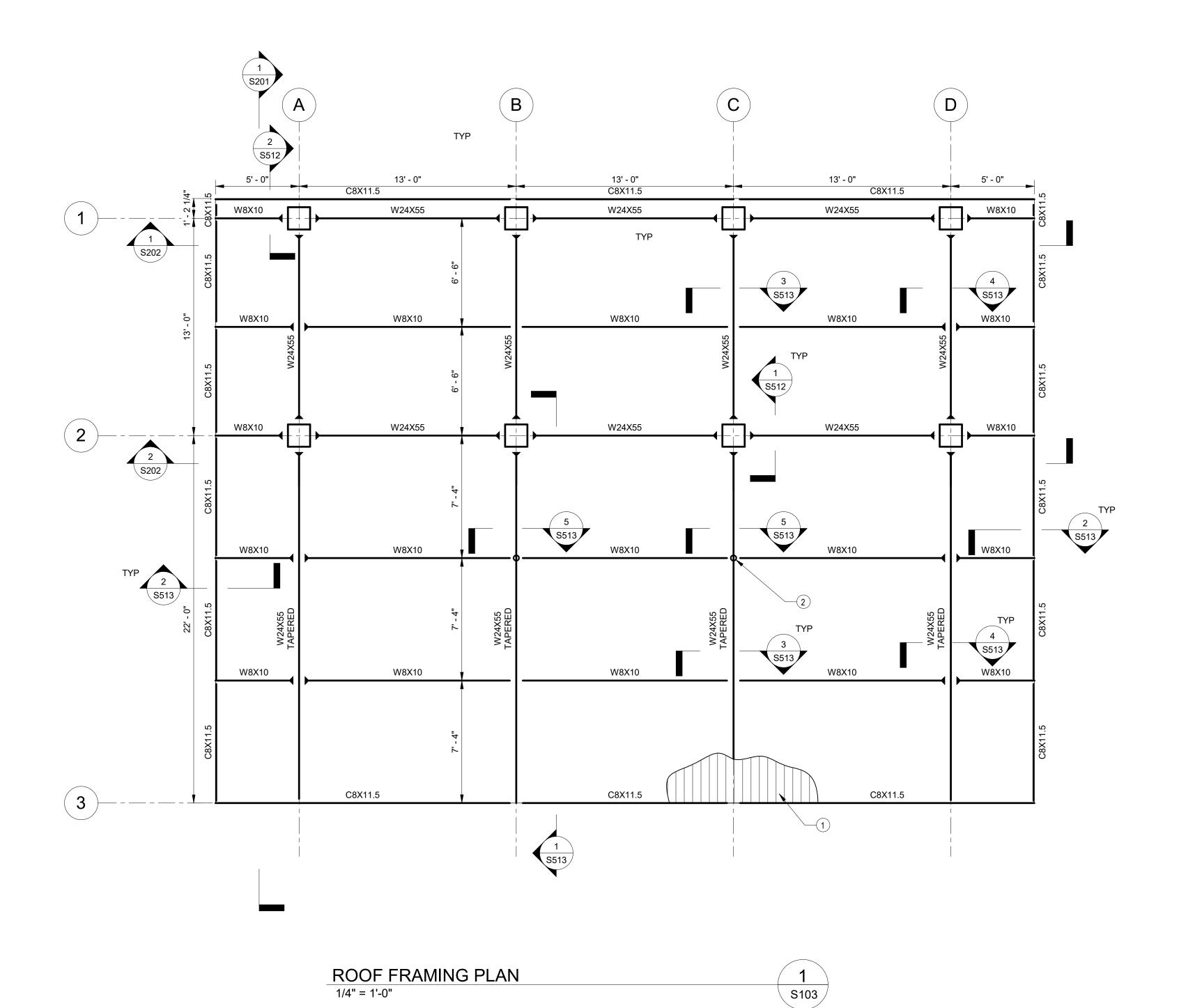
**S102** 

LEGEND

MOMENT CONNECTION

**CONSTRUCTION NOTES** 

- 1 1/2" 20 GA VERCO PLB-36 ROOF DECK w/ (4) 1/2" DIA SPOT WELDS @ EA PERP SUPPORT AND SIDE LAP CONNECTION (VSC) @ 12" OC
- FALL PROTECTION ANCHOR LOCATION, ATTACH PER MANUFACTURERS INSTRUCTIONS



REGION NO. 10 STATE: WASH	
FEDERAL AID PROJECT NO.	\$ 50
UB PERMIT	A WE
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DESIGN NO:

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	HQ CAPITAL FACILITIES

NORTHUP PREWASH RETROFIT NPDES - N	WR

/R S103

SHEETS

**BID SET** CITY OF BELLEVUE, WA

**ROOF FRAMING PLAN** 

PROJECT ARCHITEC

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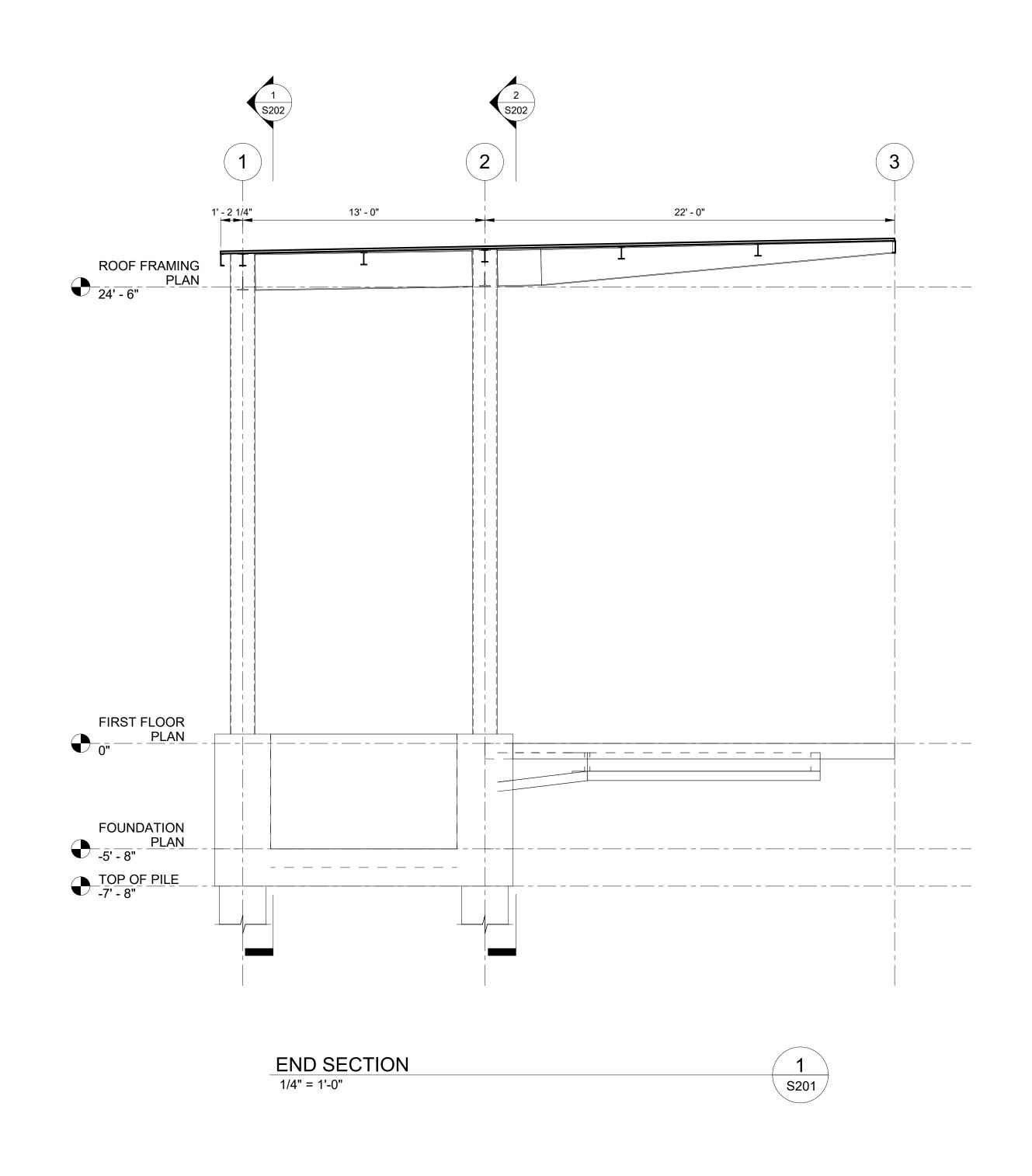
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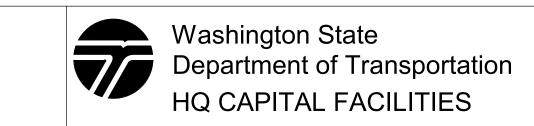
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DRAWN BY: LMY					FEDERAL AID PROJECT NO.	
REVIEWED BY: LMY					UB PERMIT	1
REVIEWED BY: MISC					HEDG00000025	
					FCR NO:	
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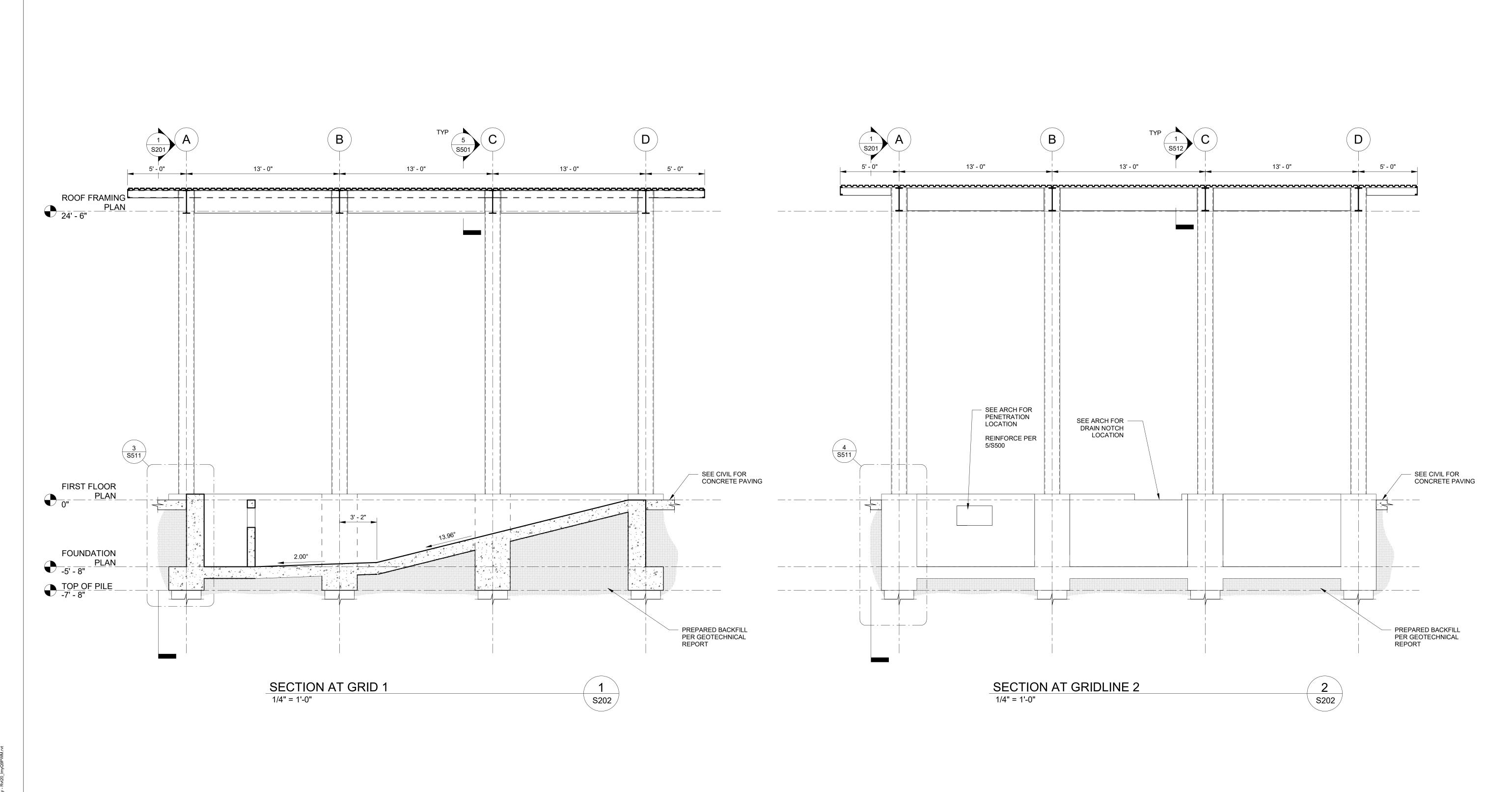
CITY OF BELLEVUE,

TRANSVERSE SECTIONS

WA

SHEETS

**S201** 



DAVID EVANS AND ASSOCIATES INC.

2100 Southwest River Parkway

Portland Oregon 97201 Phone: 503.223.6663

**UB PERMIT** 

HEDG00000025

BY DATE

Washington State
Department of Transportation

HQ CAPITAL FACILITIES

NORTHUP PREWASH RETROFIT NPDES - NWR

**BID SET** 

LONGITUDINAL SECTIONS

CITY OF BELLEVUE,

**S202** 

SHEET

SHEETS

WA

PROJECT ARCHITEC

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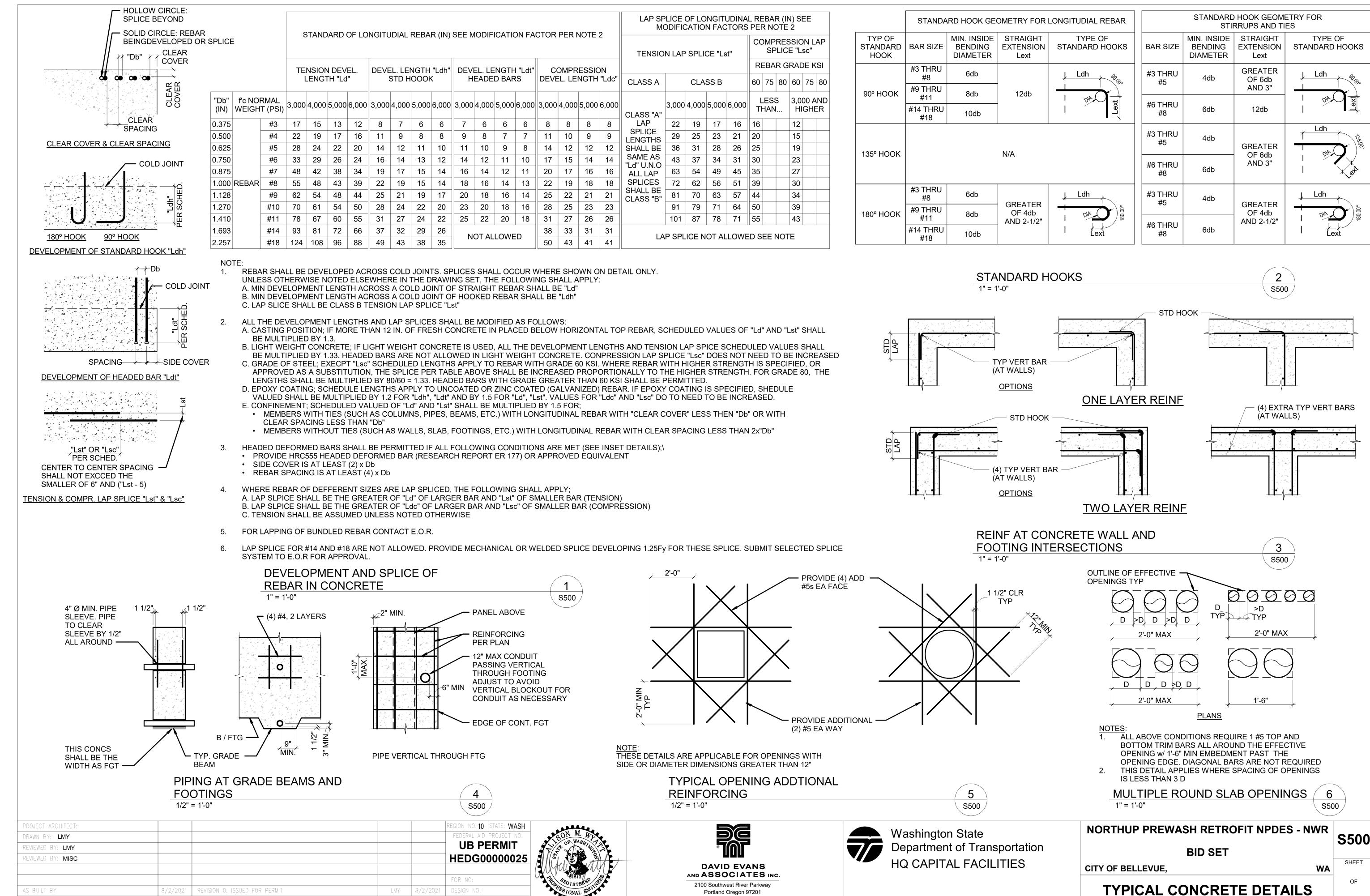
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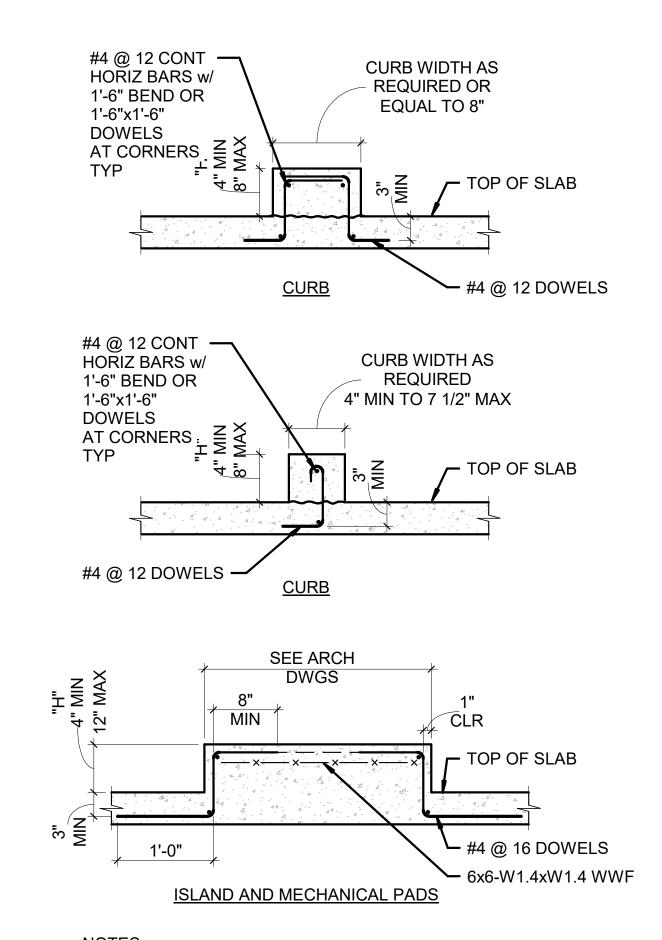
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**REVISION** 

BY

DATE



FOR CURB SIZES AND LOCATION SEE ARCH DWGS

- PROVIDE INSERTS AS REQUIED BY ARCH AND MECH

  - FOR PADS INSTALLED AFTER SLAB, REINFORCING CAN BE EPOXY DOWELLED INTO SLAB WITH 4" MIN EMBED

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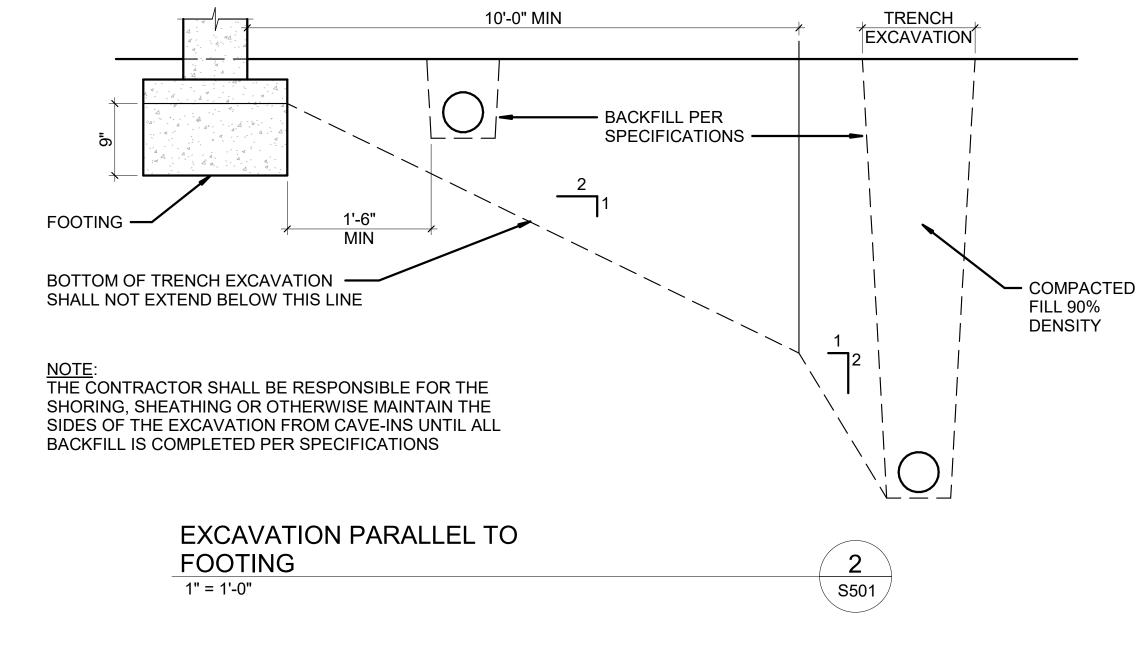
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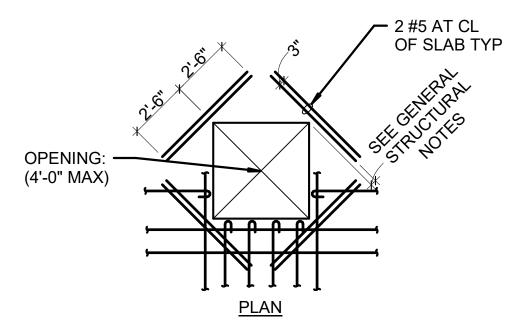
S501

## **TYPICAL**

CONCRETE CURBS AND ISLANDS

1" = 1'-0"





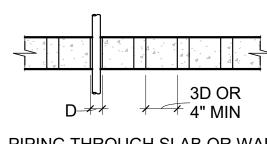
ALL TOP AND BOTTOM SLAB BARS INTERRUPTED BY OPENING SHALL BE REPLACED BY ADDITIONAL REINFORCING EQUAL TO THAT INTERRUPTED. PLACE HALF OF THE ADDITIONAL REINFORCING ON EACH SIDE OF OPENING AND EXTEND SAME LENGTH AS REQUIRED OR BAR LAP OF INTERRUPTED

BOXED OUT OPENINGS, RECESSES AND PIPE SLEEVE CLUSTERS SHALL BE TREATED AS FRAMED SLAB OPENING

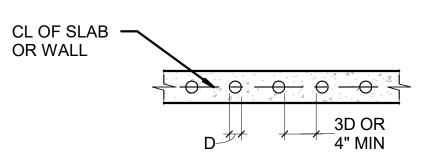


REINFORCING

4 S501



PIPING THROUGH SLAB OR WALL



**CONDUIT THROUGH SLAB OR WALL** 

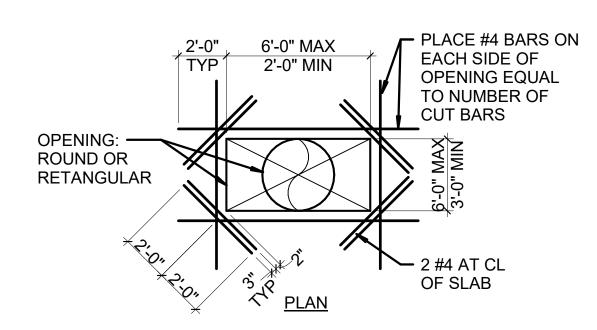
D = T/3 OR 2" MAXIMUM WHICHEVER IS LESS WHERE CLEAR DISTANCE BETWEEN SLEEVES IS

IMPOSSIBLE, THIS AREA SHALL BE TREATED AS A SLAB OPENING SEE TYPICAL DETAIL

## PIPING AND CONDUIT IN OR THROUGH SLAB OR WALL

1" = 1'-0"





1/4" = 1'-0"

ALL TOP AND BOTTOM SLAB BARS INTERRUPTED BY OPENING SHALL BE REPLACED BY ADDITIONAL REINFORCING EQUAL TO THAT INTERRUPTED. PLACE HALF OF THE ADDITIONAL REINFORCING ON EACH SIDE OF OPENING AND EXTEND SAME LENGTH AS REQUIRED OR BAR LAP OF INTERRUPTED

2. BOXED OUT OPENINGS, RECESSES AND PIPE SLEEVE CLUSTERS SHALL BE TREATED AS FRAMED SLAB OPENING

TYPICAL OPENING IN SLAB DETAIL

5 S501

**UB PERMIT** 

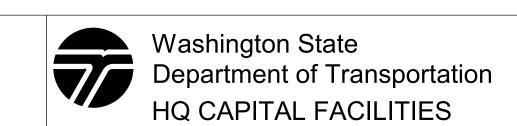
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NORTHUP PREWASH RETROFIT NPDES - NWR

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CITY OF BELLEVUE,

TYPICAL CONCRETE DETAILS

SHEETS

**S501** 

SHEET

WA

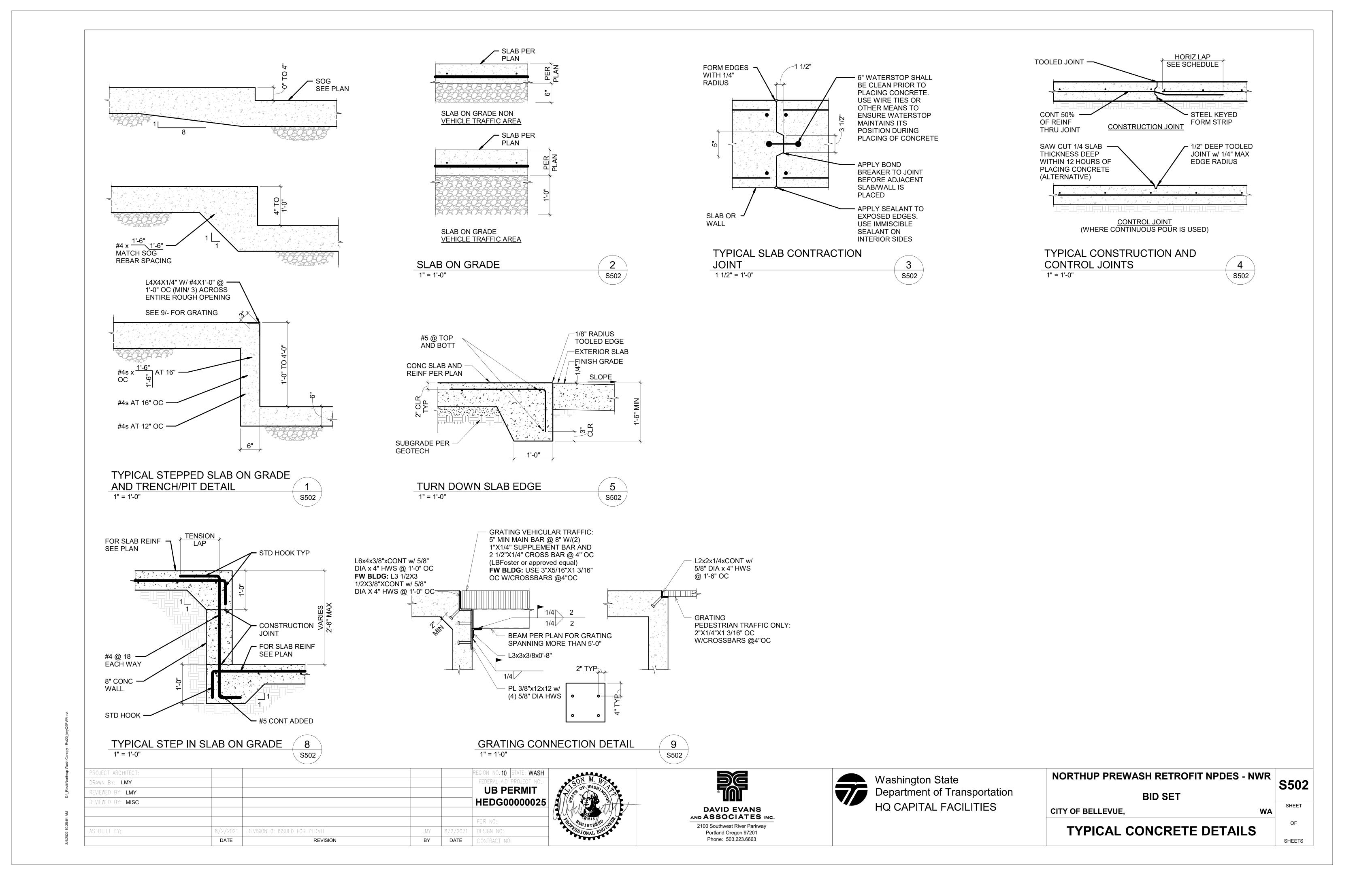
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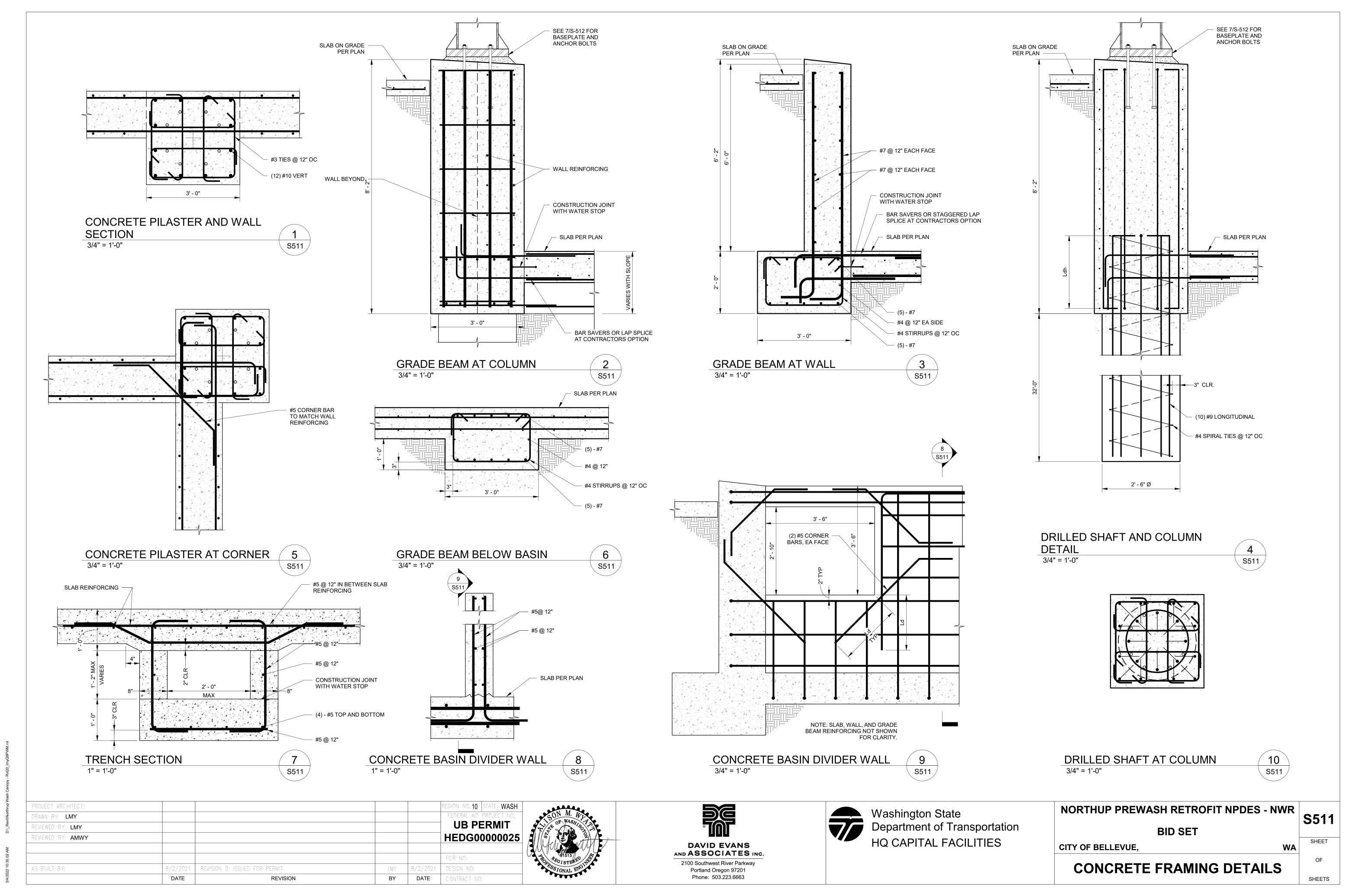
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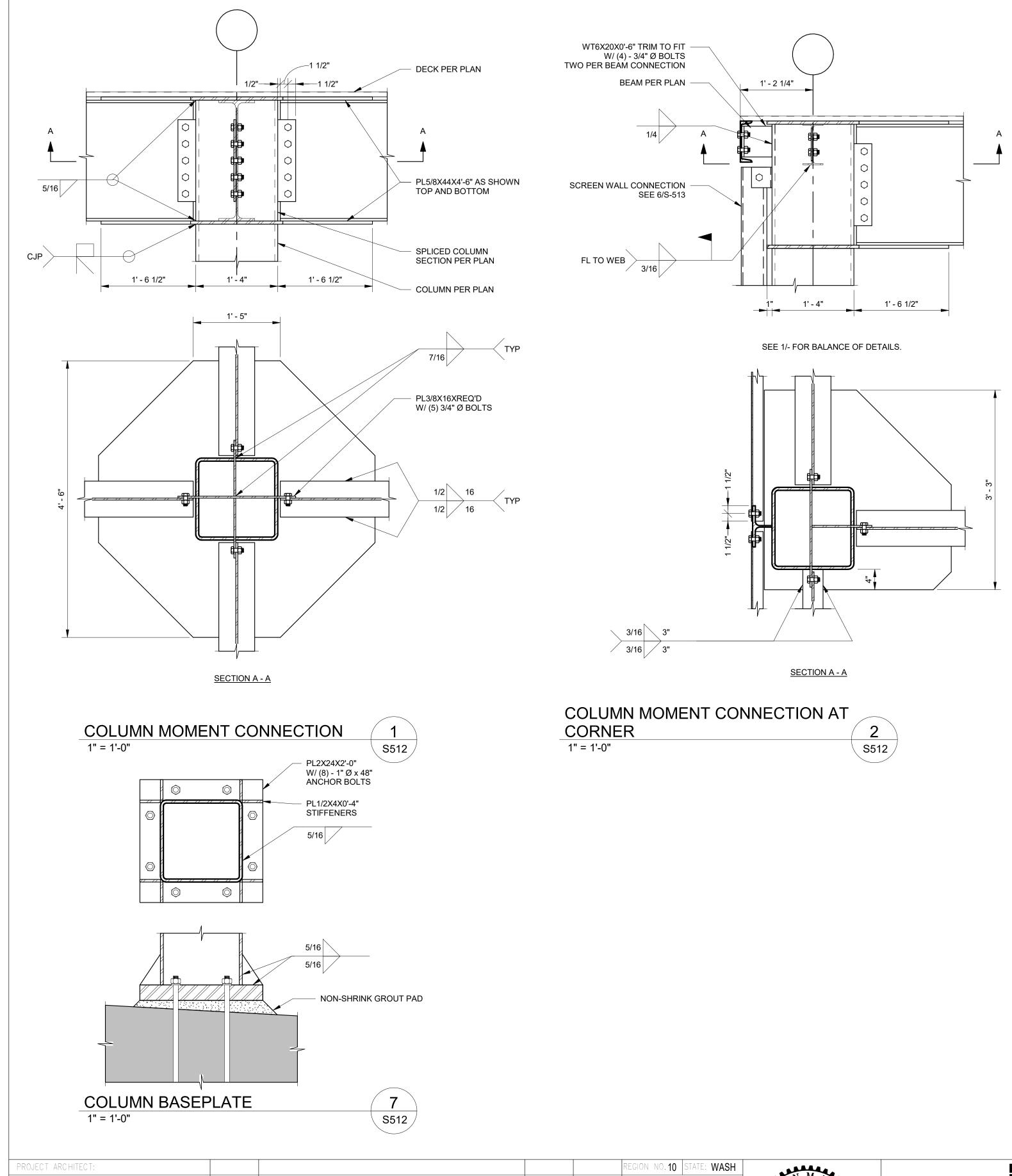
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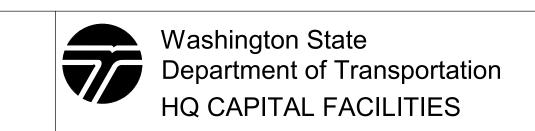




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REVIEWED BY: LMY					UB PERMIT
DRAWN BY: LMY					FEDERAL AID PROJECT NO.
PROJECT ARCHITECT:					REGION NO. 10 STATE: WASH





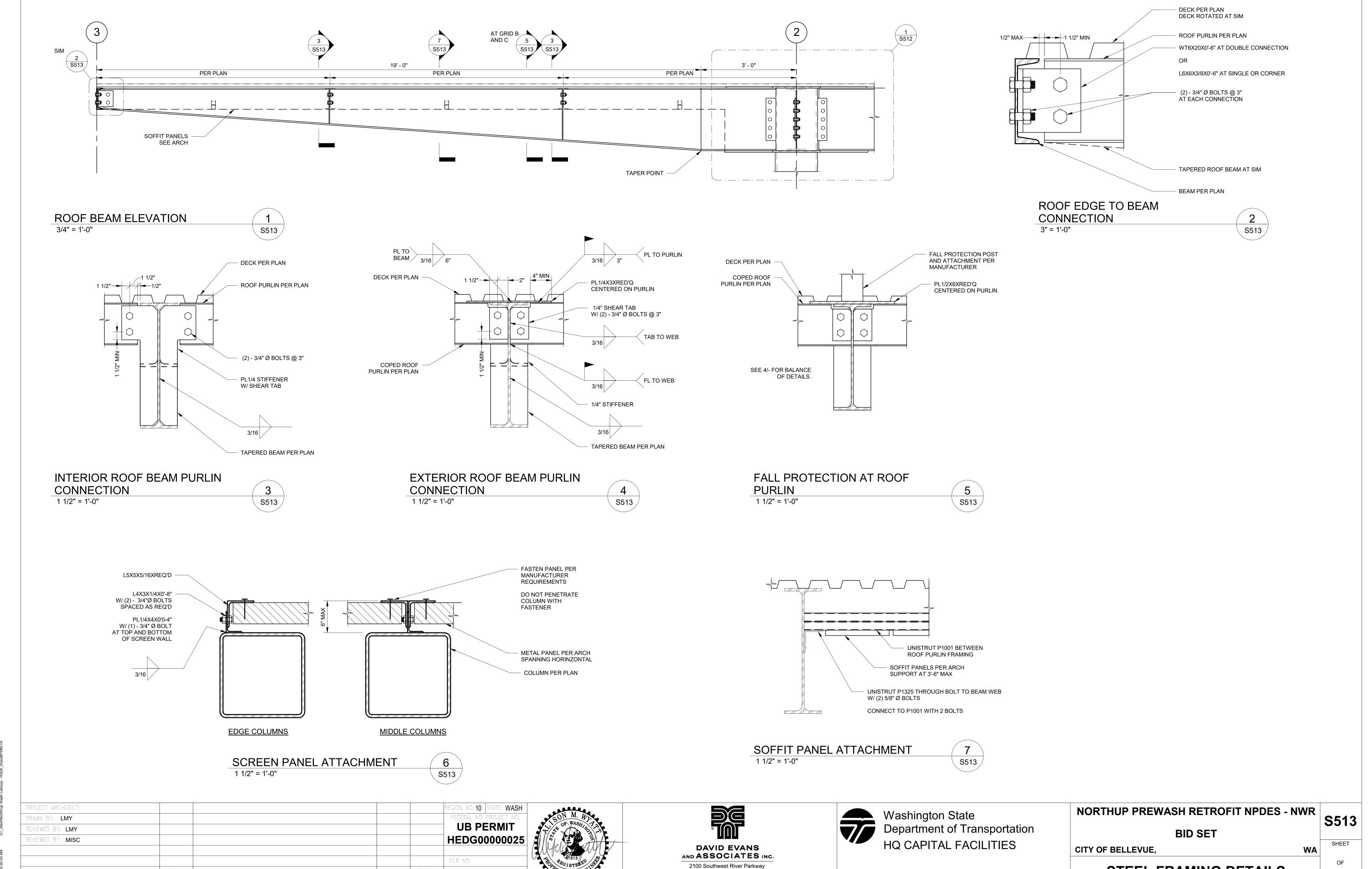


NORTHUP PREWASH RETROFIT NPDES - NWR BID SET	S512
CITY OF BELLEVUE, WA	SHEET

STEEL FRAMING DETAILS

3/4/2022 10:35:03 AM D:\ Revit\Northrup Wash Canopy - Rvt2(

OF SHEETS



Portland Oregon 97201 Phone: 503.223.6663 STEEL FRAMING DETAILS

SHEETS

AS BUILT BY:

EVISION O: ISSUED FOR PERMIT

REVISION

BY

DATE

DATE

## MECHANICAL GENERAL NOTES

- 1. DRAWINGS SCALES APPLY TO FULL SIZE SHEET ONLY; FULL SIZE SHEETS ARE 34"x22". USE CAUTION IN OBTAINING DIMENSIONS AND QUANTITIES FROM DRAWINGS THAT ARE NOT THIS FULL SIZE; USE DIMENSIONS CALCULATED FROM DIMENSIONS ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS OVER OTHER METHODS OF OBTAINING DIMENSIONS.
- 2. SEISMICALLY ANCHOR ALL UNITS & EQUIPMENT TO BUILDING. (UNO). CONTRACTOR IS RESPONSIBLE TO SELECT AND PROVIDE ALL SEISMIC ANCHORING DEVICES FOR ALL MECHANICAL EQUIPMENT, ALL PIPING AND ALL DUCTWORK. CONTRACTOR SHALL SUBMIT DETAILS AND PLANS TO BUILDING INSPECTOR FOR REVIEW AND COMMENT PRIOR TO INSTALLATION.
- 3. FIXTURE LOCATIONS: VERIFY LOCATION OF PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS BEFORE BEGINNING WORK. ARCHITECTURAL DRAWINGS GOVERN. PLUMBING FIXTURE HEIGHTS SHALL BE AS SHOWN ON ARCHITECTURAL DRAWINGS.
- 4. PIPE ROUTING: ALL PIPING SHOWN IS SCHEMATIC, CONTRACTOR SHALL PROVIDE ALL OFFSETS/ELBOWS AS REQ'D TO ALLOW ROUTING AROUND STRUCTURE, ELECTRICAL, & OTHER INTERFERENCES. ALL PIPING SHALL BE RUN CONCEALED, UNO.
- 5. PIPE SIZES: UNSIZED PLUMBING PIPING SHALL MATCH THE SIZE OF THE LARGEST ADJACENT CONNECTING PIPE SIZE SHOWN.

PLUMBING FIXTURE SCHEDULE										
SYMBOL DESCRIPTION W V CW HW REMARKS MANUFACTURER AND SERIES NO.										
						FIXTURE	TRIM			
GROUND HYDRANT	-	-	1-1/4"	-	NON-FREEZE	ZURN Z1365	FLUSH GRADE INSTALLATION, COATED CAST IRON BOX WITH LOCKING LID, T-HANDLE LOCK 1-1/4" THREADED HOSE CONNECTION			
	DESCRIPTION  GROUND HYDRANT		DESCRIPTION W V	DESCRIPTION W V CW	DESCRIPTION W V CW HW	DESCRIPTION W V CW HW REMARKS	DESCRIPTION W V CW HW REMARKS FIXTURE			

SYMBOL	MISCELLANEOUS EQUIPMENT SCHEDULE  BASIS OF DESIGN MANUFACTURED AND AREA SERVED FOUNDMENT CARACITY ELECTRICAL  BEMARKS									
STINIBUL	DESCRIPTION	MANUFACTURER AND SERIES NO.	AREA SERVED	EQUIPMENT CAPACITY	POWER	VOLTS / PH	REMARKS			
ENC-1	INSULATED UTILITY ENCLOSURE W/ HEATER	AQUA-SHIELD BFP4-05	BACKFLOW PREVENTER	102"x28"x54" INSIDE DIMENSION *	1500 WATTS	120/1	2 DOOR PANEL, ALUMINUM CONSTRUCTION, 450 LBS			
* VERIFY INSIDE DIMENSION IS ADEQUATE TO ENCLOSE WASH BAY WATER HEADER COMPLETELY.										

MBOL	DESCRIPTION	ABBREV.	DESCRIPTION
	WASTE OR SOIL (W)	AFF	ABOVE FINISHED FLOOR
	VENT (V)	AHJ	AUTHORITY HAVING JURISDICTION
		APPROX ARCH	APPROXIMATELY ARCHITECTURAL
	COLD WATER (CW)	ASSY	ASSEMBLY
- NPW	NON POTABLE WATER (NPW)	BFF BTU	BELOW FINISHED FLOOR BRITISH THERMAL UNIT
•	FLOOR CLEANOUT (FCO)	BTUH	BRITISH THERMAL UNIT/HOUR
$\longrightarrow$	ISOLATION VALVE, SEE SPECIFICATIONS FOR TYPE	BLDG CAP	BUILDING CAPACITY
	ISOLATION VALVE - SEE SPECIFICATIONS FOR TYPE	CLG	CEILING
	CHECK VALVE	CO CONN	CLEANOUT   CONNECTION
<u></u>	PIPE UP	CONT	CONTINUE, CONTINUATION
	PIPE DOWN	CW DEG F, °F	COLD WATER DEGREE FAHRENHEIT
<del></del>	DIDE TEE IN LINE DRANGH DIDE DOWN	DIA, Ø	DIAMETER
	PIPE TEE IN LINE, BRANCH PIPE DOWN	DN DWG	DOWN DRAWING
<u> </u>	UNION	EA	EACH
$\Re$	SOLENOID VALVE	EFF ELEC	EFFICIENCY ELECTRICAL, ELECTRIC
	STRAINER W/ BLOWDOWN VALVE	EXIST	EXISTING
		ETR FPM	EXISTING TO REMAIN FEET PER MINUTE
<u> </u>	PRESSURE REDUCING VALVE (PRV)	FLEX	FLEXIBLE
$\Diamond$	PRESSURE GAUGE	FL	FLOOR
		FCO FLA	FLOOR CLEAN OUT FULL LOAD AMPS
		GAL	GALLON
		HB HP	HOSE BIBB HORSE POWER
		INTEGR.	INTEGRAL
		IN I.E.	INCH INVERT ELEVATION
		KW	KILOWATT
		L LWT	LINING LEAVING WATER TEMPERATURE
		MAX	MAXIMUM
		MFR	MANUFACTURER
		MBH MID	THOUSAND BTUH MIDDLE
		MCA	MINIMUM CIRCUIT AMPACITY
		MECH MIN	MECHANICAL   MINIMUM
		NO.	NUMBER
		NPW NTS	NON POTABLE WATER NOT TO SCALE
		PH	PHASE
		PD RLA	PRESSURE DROP RATED LOAD AMPS
		REF	REFERENCE
		RL REQ'D	RAIN LEADER REQUIRED
		RPM	REVOLUTIONS PER MINUTE
		RM SCO	ROOM SURFACE CLEANOUT
		S.O.	SCREENED OPENING
		SS	STAINLESS STEEL
		TEMP TYP	TEMPERATURE TYPICAL
		UG	UNDERGROUND
		UNO VFD	UNLESS NOTED OTHERWISE VARIABLE FREQUENCY DRIVE
		VTR	VENT THROUGH ROOF
2	 	V WC	VOLTS, VOLTAGE, VENT WATER COLUMN
M3.1	SHEET ON WHICH DETAIL IS SHOWN	wco	WALL CLEAN OUT
		W	WASTE
OTE: FOR	DESCRIPTION OF OTHER ABBREVIATIONS SEE SYMBOL LISTING TO THE LEFT,	WA W/	WATT WITH

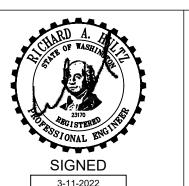
HULTZ BHU

**BID SET** 

1111 Fawcett Ave Suite 100 Tacoma, WA 98402

Phone: (253) 383-3257 Fax: (253) 383-3283 general@hultzbhu.com Job Number: 20-165

PROJECT ARCHITECT: LC			REGION NO.	STATE:
DRAWN BY: WS			FEDERAL AND	PROJECT NO.
REVIEWED BY:				
PERMIT SUBMITTAL	08.02.21		JOB NO:	a20-099
BID SET	03.11.22		FCR NO:	
AS-BUILT BY:			DESIGN NO:	
	DATE		CONTRACT NO:	

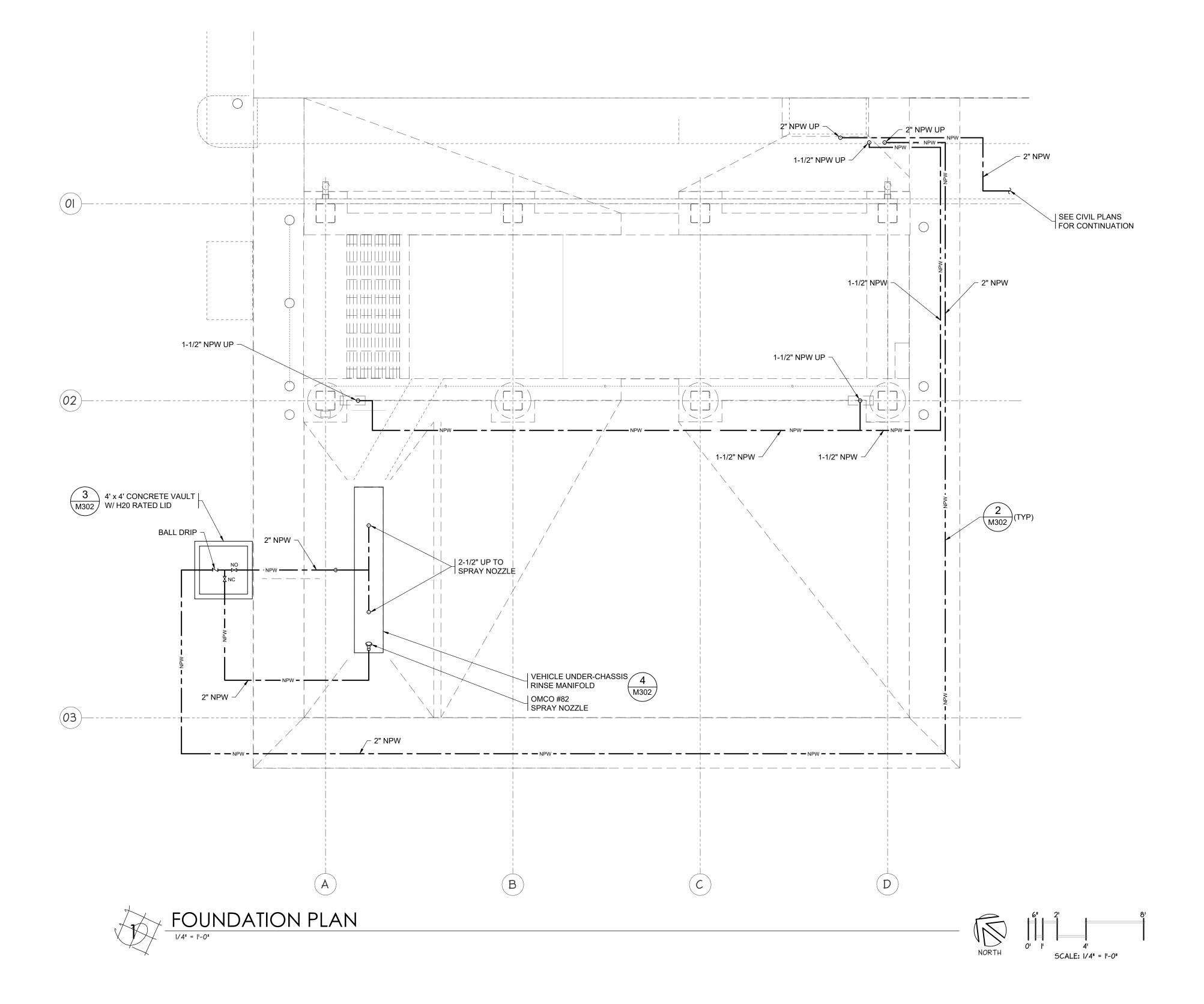




6021 12th street east suite 201 tacoma, wa. 98424 tel: 253.922.9037 fax: 253.922.6499



NORTHUP PREWASH RETROFIT NPDES - NWR BID SET	M001	
		]
LEGEND & NOTES	OF	
	SHEETS	ı



HULTZ BHU

**BID SET** 

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Phone: (253) 383-3257
general@hultzbhu.com Tacoma, WA 98402
Fax: (253) 383-3283
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REGION NO. PROJECT ARCHITECT: LC DRAWN BY: WS FEDERAL AND PROJECT NO. REVIEWED BY: PERMIT SUBMITTAL 08.02.21 JOB NO: a20-099 BID SET 03.11.22 FCR NO: AS-BUILT BY: DESIGN NO: DATE CONTRACT NO:









NORTHUP PREWASH RETROFIT NPDES - NWR BID SET	M201
FOUNDATION PLAN	OF
	SHEETS

PROJECT ARCHITECT: LC

08.02.21

03.11.22

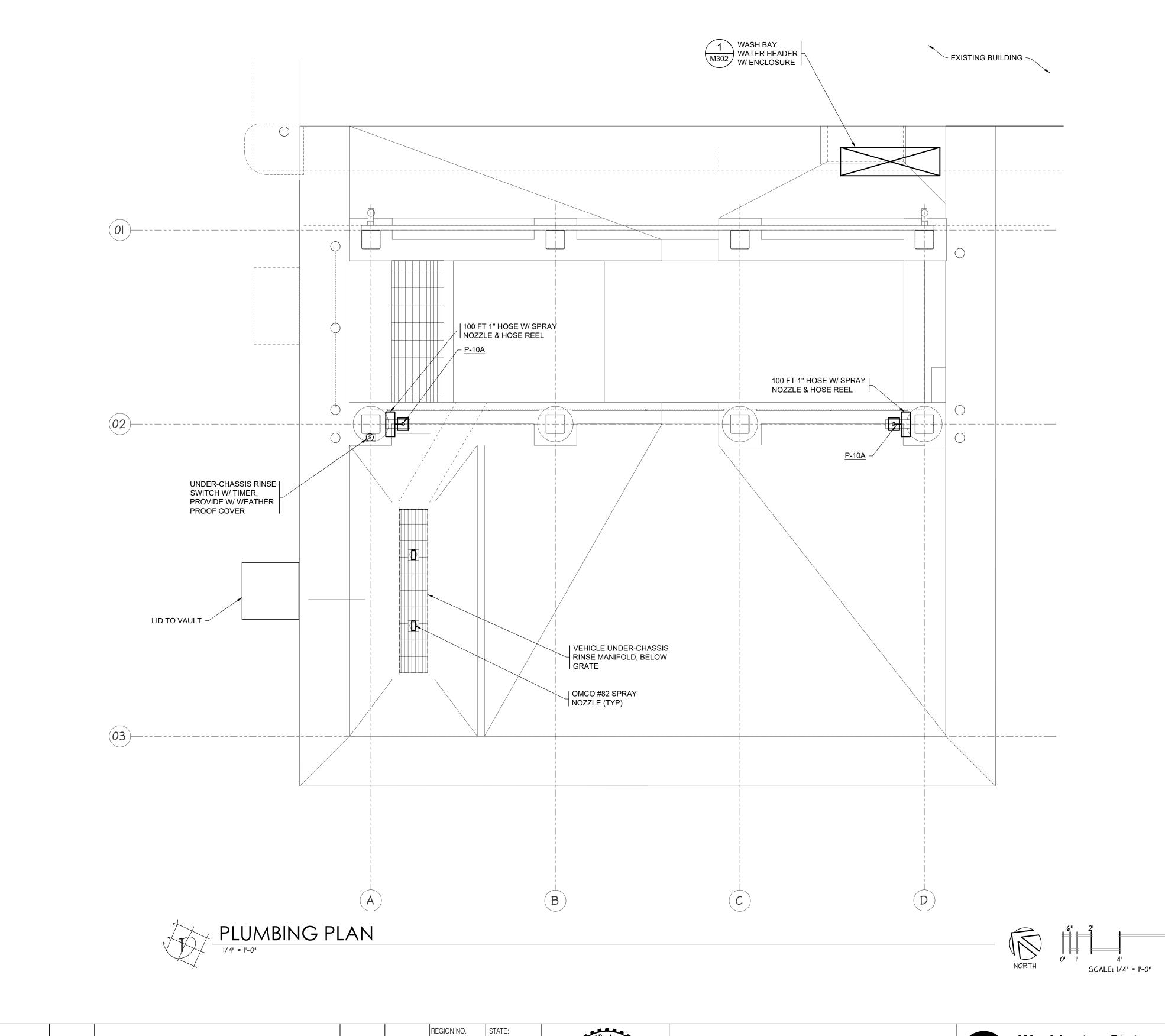
DATE

DRAWN BY: WS REVIEWED BY:

PERMIT SUBMITTAL

BID SET

AS-BUILT BY:



HULTZ & BHU

**BID SET** 

1111 Fawcett Ave Suite 100 Tacoma, WA 98402 Phone: (253) 383-3257 Fax: (253) 383-3283 general@hultzbhu.com Job Number: 20-165

FEDERAL AND PROJECT NO. a20-099 SIGNED 3-11-2022 CONTRACT NO:

JOB NO:

FCR NO:

DESIGN NO:

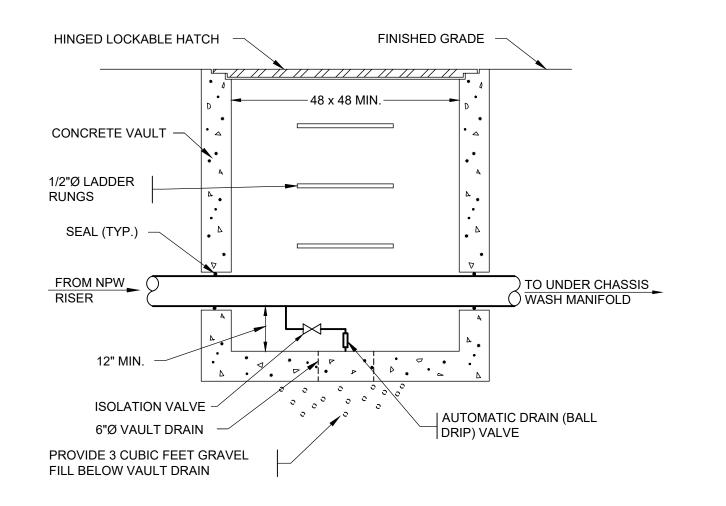


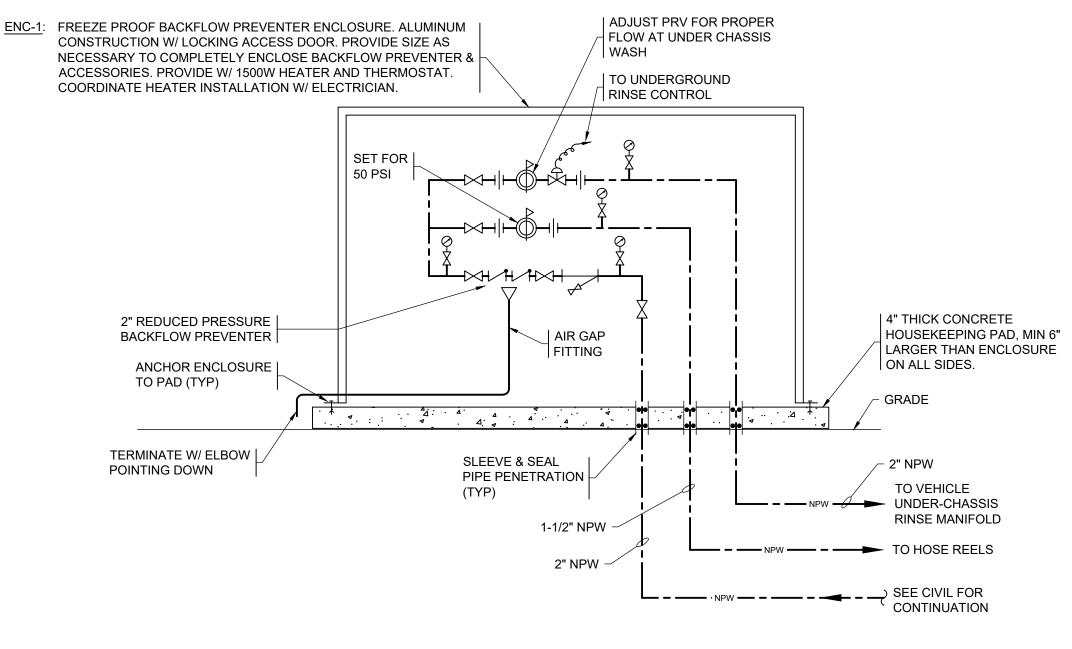




NORTHUP PREWASH RETROFIT NPDES - NWR BID SET	M3
PLUMBING PLAN	OF
	SHEE

- 1. VAULT SHALL BE CONSTRUCTED OF MIN. 4000
  PSI 28 DAY COMPRESSIVE STRENGTH CONCRETE
  & SHALL BE RATED FOR AASHO-H20 LOADING.
  VAULT REINFORCING STEEL SHALL BE DEFORMED
  STEEL BARS PER ASTM A 615-65 GRADE 40 &
  WELDED WIRE FABRIC PER ASTM A 82-66 &
  155-69.
- 2. VAULT DEPTH & DIMENSIONS SHALL BE AS REQ'D TO SUIT ITEMS SHOWN & TO PROVIDE MINIMUM CLEARANCES INDICATED.
- 3. HATCH SHALL BE RATED FOR AASHO-H20 LOADING, SHALL BE DIAMOND PLATE STEEL TYPE, HOT-DIP GALV. AFTER FABRICATION. OPENING SIZE SHALL BE NO LESS THAN 34"x 34" (INSIDE CLEAR) W/HATCH.

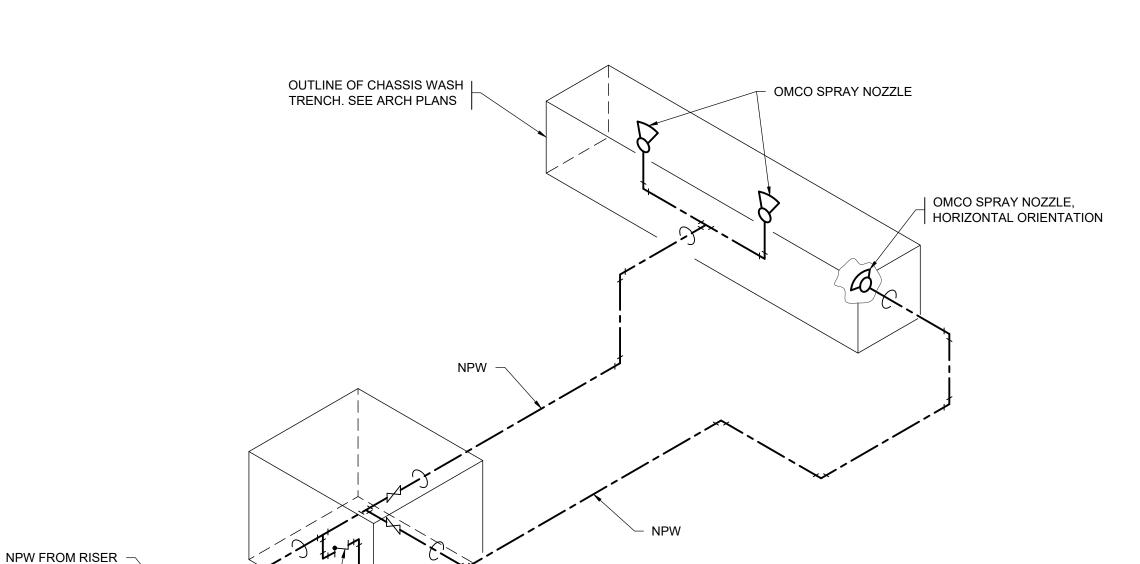




BALL DRIP ASSEMBLY

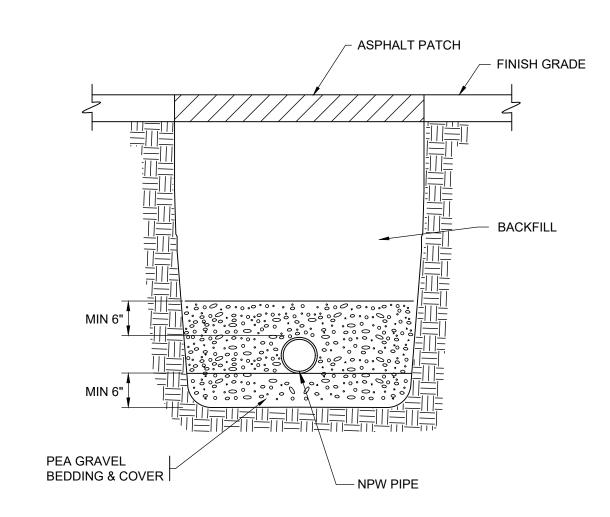
NTS

M302



BALL DRIP VAULT WITH TRAFFIC RATED LID





UTILITY TRENCH & BEDDING 2

NTS

M302

CHASSIS WASH SCHEMATIC

M302

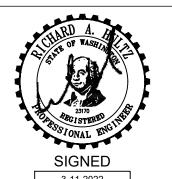
BALL DRIP ASSEMBLY



**BID SET** 

1111 Fawcett Ave Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257
general@hultzbhu.com Job Number: 20-165

PROJECT ARCHITECT: LC				REGION NO.	STATE:	
DRAWN BY: WS				FEDERAL AND	PROJECT NO.	
REVIEWED BY:						
ERMIT SUBMITTAL	08.02.21			JOB NO:	a20-099	
BID SET	03.11.22			FCR NO:		
AS-BUILT BY:				DESIGN NO:		
	DATE			CONTRACT NO:		









NORTHUP PREWASH RETROFIT NPDES - NWR BID SET	M302
PLUMBING DETAILS	OF SHEETS

	ABBF	REVIATIONS					
	(SOME ABBREVIATIONS	MAY NOT BE USED ON	I DRAWINGS)				
ABBREVIATION	DESCRIPTION	ABBREVIATION		DESCRIPTION			
A or AMP	AMPERES	MCM, KCM	THOUSAND CIRC				
AC	ALTERNATING CURRENT	MDF	MAIN DISTRIBUT	ION FRAME			
A/C AIC	AIR CONDITIONING  AMPERE INTERRUPTING CAPACITY	MECH MIN	MECHANICAL MINIMUM				
AL	ALUMINUM	MLO	MAIN LUGS ONL	Y			
ARCH	ARCHITECTURAL	MOP, MOCP		CURRENT PROTECTION			
ATS	AUTOMATIC TRANSFER SWITCH	NIC	NOT IN CONTRA	СТ			
AWG	AMERICAN WIRE GAUGE	NTS	NOT TO SCALE				
BKR	BREAKER	OC	ON CENTER				
BLDG	BUILDING	PA	PUBLIC ADDRES	S			
С	CONDUIT	РВ	PULLBOX				
C.O.	CONDUIT ONLY	Ø or PH	PHASE				
СВ	CIRCUIT BREAKER	PNL	PANEL				
CCTV	CLOSED CIRCUIT TELEVISION	PR	PAIR				
CFM	CUBIC FEET PER MINUTE	PRI	PRIMARY				
CKT	CIRCUIT	PVC	POLYVINYL CHLO	ORIDE			
CLG	CEILING	RECPT	RECEPTACLE				
CONC	CONCRETE	REQ	REQUIRED ROOM SHEET				
СТ	CURRENT TRANSFORMER	RM					
CU	COPPER	SHT					
CW	COLD WATER	SP	SINGLE POLE				
DC	DIRECT CURRENT	SPD	SURGE PROTECTIVE DEVICE				
DIA	DIAMETER	SPDT					
DIV	DIVISION	SPST	NGLE THROW				
DPDT	DOUBLE POLE, DOUBLE THROW	SW	SWITCH SWITCHBOARD				
DPST	DOUBLE POLE, SINGLE THROW	SWBD					
DWG	DRAWING	TEL					
EGC	EQUIPMENT GROUND CONDUCTOR	TV	TELEVISION				
ELEC	ELECTRIC	ТТВ	ATIONS TERMINAL BOARD				
EMT	ELECTRICAL METALLIC TUBING	TYP	TYPICAL				
EXST, (E)	EXISTING	UL	UNDERFLOOR UNDERGROUND VOLTS				
EV	ELECTRIC VEHICLE	UF					
FA	FIRE ALARM	UG					
FC	FOOTCANDLE	V					
FLA	FULL LOAD AMPS	VA					
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VAC	VOLTS ALTERNA	TING CURRENT			
GND	GROUND	VAR	REACTIVE VOLT AMPERES				
HP	HORSEPOWER	W	WATTS				
IDF	INTERMEDIATE DISTRIBUTION FRAME	WP	WEATHERPROOF				
J-BOX	JUNCTION BOX	/W	WITH				
KV	KILOVOLTS	W/O	WITHOUT				
KVA	KILOVOLT AMPERES	XFER	TRANSFER				
KW	KILOWATTS	XFMR	TRANSFORMER				
LT	LIGHT						
LTG	LIGHTING						
MAX	MAXIMUM						
MCA	MINIMUM CIRCUIT AMPS						
MCB	MAIN CIRCUIT BREAKER						
MCC	MOTOR CONTROL CENTER						
	OUTLET MOUNTIN (MEASURE TO CENTER OF BOX, UNL		CATED)				
COUNTER HEIGI	,	FIRE ALAR	<u> </u>				
CASEWORK OUT	• •	MANUAL S		48 INCHES TO TOP			
SWITCHES AND	DIMMERS 48 INCHES	SIGNALING	G DEVICES	80 INCHES TO BOTTOM			
RECEPTACLES	18 INCHES		ALARM LIGHTS	80 INCHES TO BOTTOM			
THERMOSTATS OCCUPANCY SE	48 INCHES INSORS 12 FEET MAXIMUM	REMOTE A GRAPHIC I	ANNUNCIATOR PLAQUES	60 INCHES TO BOTTOM 60 INCHES TO BOTTOM			
DATA (COMPUTI	ER) 18 INCHES	SECURITY					
WALL PHONE	48 INCHES	KEY PAD		48 INCHES TO TOP			
TV (TELEVISION	•	CARD REA	DER	48 INCHES			
TV WALL MOUN <sup>-</sup> SPEAKERS	TED CENTER OF TV BRACKET 90 INCHES	CCTV		WITHIN 6 INCHES OF CAMERA MOUNT			
SPEAKERS CLOCKS	90 INCHES	00T) / DOI	E MOUNTED	16 FEET			

## **ELECTRICAL LEGEND**

		(SOME SYMBOLS MAY NO	OT BE USED ON	DRAWINGS)
	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
		DISTRIBUTION		POWER
		PANELBOARD - SURFACE	<del>   </del>	DUPLEX RECEPTACLE (NEMA 5-20R)
	<u> </u>	PANELBOARD - EXISTING (SURFACE PANEL SHOWN)		SUBSCRIPT: IG ISOLATED GROUND
		SWITCHBOARD OR MCC (DRAWN TO SCALE)		DF CHILLED WATER FOUNTAIN REF REFRIGERATOR
	<u></u>	DISCONNECT SWITCH		COP COPIER
		FUSED DISCONNECT SWITCH		P PEDESTAL
		UNDERGROUND POWER VAULT		WP WEATHERPROOF C CEILING
		DRY TYPE TRANSFORMER		DW DISHWASHER
		GENERAL		P WALL MOUNT PROJECTOR TV VIDEO DISPLAY OUTLET. REFER TO
	#	BUBBLE NOTE TAG SYMBOL: # - IDENTIFYING NUMBER		ARCHITECTURAL DETAILS FOR MOUNTING HEIGHT
	$\longleftrightarrow$	SCHEDULED EQUIPMENT CONNECTION (INCLUDE ALL WIRING, DISCONNECTING MEANS, CONTROL		ALL RECEPTACLES ARE TAMPER RESISTANT
		AND OTHER REQUIREMENTS SCHEDULED)	₩	FOURPLEX RECEPTACLE (NEMA 5-20R)
	#	DETAIL SYMBOL:	<del>  ♥</del>	DUPLEX RECEPTACLE CONTROLLED BY
	(# A	# - IDENTIFYING NUMBER	·	OCCUPANCY SENSOR OR TIME SWITCH
		A - SHEET WHERE DETAIL SHOWN		
	^			GFCI DUPLEX RECEPTACLE (NEMA 5-20R)
	<u>/#\</u>	REVISION CALLOUT	<del>                                   </del>	ASTERISK INDICATES COUNTER HEIGHT OUTLET (DUPLEX RECEPTACLE SHOWN)
	#	FLAG NOTE	₽	RANGE RECEPTACLE (NEMA 14-50R)
	(#)	SCHEDULED CONDUIT CALLOUT	⊨	DRYER RECEPTACLE (NEMA 14-30R)
		LIGHTING	⊣	SPECIAL PURPOSE OUTLET (AS NOTED)
				RECESSED FLOOR BOX FOR POWER & SIGNAL
		LUMINAIRE (TO SCALE ON DRAWINGS)		DISCONNECT SWITCH
		EMERGENCY FIXTURE - TWIN HEAD		FUSED DISCONNECT SWITCH
	$\stackrel{\bullet}{\otimes}$	COMBINATION EXIT SIGN AND TWIN HEAD EMERGENCY LIGHTING UNIT	0	JUNCTION BOX
	F	LIGHT FIXTURE ON EMERGENCY LIGHTING	Ó	MOTOR CONNECTION
		CIRCUIT		EQUIPMENT CONNECTION  SUBSCRIPT: WH WATER HEATER
	a,b	INDICATES CONTROL ZONE		HD HAND DRYER
	0	POLE MOUNTED LIGHT		WC WATER COOLER
	XX	INDICATES LUMINAIRE TYPE		PUSHBUTTON OPERATOR STATION (START/STOP
		LINE TYPES		UNLESS OTHERWISE NOTED)
-		EXISTING WORK		
-		NEW WORK		
		WIRING CONCEALED IN CEILING OR WALL		
		WIRING AND CONDUIT BELOW GRADE WIRING EXPOSED		
		WIRING HOMERUN		
	<u> </u>	CONDUIT UP, DOWN		
	$\sim$	FLEXIBLE WIRING CONNECTION		
	OHP OHP	OVERHEAD POWER		

				/
	EMERGENCY EGR		PNL-13	CONTROL ZONE ID
	(HATCH & CALI	_OUT SHOWN) —	EM a	
			<u>F1</u>	
	FIX	TURE SYMBOL —		FIXTURE TYPE
		<u>l</u>	IGHTING CON	TROL
	$\Theta$	PHOTOCEL	L, EXTERIOR	
	S	SINGLE POI	LE TOGGLE SV	VITCH
	\$	DIGITAL SW	/ITCH STATION	N .
)	\$ <sub>WP</sub> , S <sub>3</sub>	SWITCH SU	2 3 4 D EP K LV LVM M MC P	DOUBLE POLE THREE WAY FOUR WAY DIMMER EXPLOSION PROOF KEY OPERATED LOW VOLTAGE LOW VOLTAGE LOW VOLTAGE MASTER MANUAL MOTOR STARTER W/OVERLOADS MOMENTARY CONTACT SWITCH W/PILOT LIGHT TIMER
			WP a, b, c	WEATHERPROOF MULTIGANG SWITCH STATION
	©S) ETR	OCCUPANO	SENSOR - DUA SY SENSOR RGENCY TRAN	

LIGHT FIXTURE CALLOUTS

PANELBOARD AND CIRCUIT NUMBER

## GENERAL ELECTRICAL NOTES:

- SEE ARCHITECTURAL PLANS FOR LOCATION OF FIRE RATED CONSTRUCTION.
- 2. BRANCH CIRCUIT NOTES:
- A. VERIFY BRANCH CIRCUIT WIRE COUNT BEFORE PULLING CONDUCTORS. PROVIDE REQUIRED CONDUCTORS TO EACH OUTLET AND DEVICE FOR PHASE, NEUTRAL AND EQUIPMENT GROUND BASED ON CIRCUIT DESIGNATIONS SHOWN AND AS OTHERWISE INDICATED ON PLANS OR NOTE BELOW.
- B. FOR SWITCHED OUTLETS, PROVIDE ADDITIONAL CONDUCTOR COUNT REQUIRED FOR SWITCH LEGS TO ACCOMMODATE SWITCH CONTROL INDICATED. MAINTAIN UNSWITCHED LEG IN LIGHTING BRANCH CIRCUITS TO EXIT, EMERGENCY, AND NIGHT LIGHTING SHOWN.
- C. MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE FOR OUTDOOR AND EXTERIOR BUILDING LIGHTING SHALL BE #10 AWG.
- D. PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR BRANCH CIRCUITS SERVING RECEPTACLE OUTLETS UNLESS OTHERWISE INDICATED.
- 3. MINIMUM CONDUIT SIZE FOR HOMERUNS AND FOR CONDUIT INSTALLED

BELOW GRADE OUTDOORS SHALL BE 3/4 INCH.

ARCHITECT/ENGINEER FOR RESOLUTION.

- 4. REFER TO ARCHITECTURAL PLANS FOR LIGHT FIXTURE LOCATIONS AND FOR MOUNTING HEIGHT OF SUSPENDED AND WALL MOUNTED LIGHT FIXTURES. REFER TO REFLECTED CEILING PLANS, INTERIOR ELEVATIONS, EXTERIOR ELEVATIONS, ROOM SECTIONS, AND DETAILS SHOWN ON ARCHITECTURAL CONTRACT DOCUMENTS PRIOR TO ROUGH-IN. REPORT CONFLICTS TO
- 5. REFER TO ARCHITECTURAL ELEVATIONS FOR LOCATION AND MOUNTING HEIGHT OF WIRING DEVICES. REPORT CONFLICTS TO ARCHITECT/ENGINEER FOR RESOLUTION.
- 6. VERIFY EXACT LOCATION OF FLOOR BOXES AND OUTLETS LOCATED IN KNEE SPACES AND CASEWORK. OBTAIN ARCHITECT APPROVAL PRIOR TO ROUGH-IN.
- 7. VERIFY BACK BOX REQUIREMENTS OF EQUIPMENT FURNISHED UNDER OTHER THAN DIVISION 26, 27 OR 28 SECTIONS AND EQUIPMENT FURNISHED



1111 Fawcett Ave, Suite 100 Tacoma, WA 98402 Phone: (253) 383-3257 Fax: (253) 383-3283 BID SET 3-11-2022 general@hultzbhu.com Job Number: 20-165

E001

PROJECT ARCHITECT: LC 05/14/2021 30% PROGRESS SET REGION NO. STATE: 06/18/2021 60% PROGRESS SET DRAWN BY: HBHU FEDERAL AND PROJECT NO. 08/02/2021 PERMIT SET REVIEWED BY: REVIEWED BY: 03/11/2022 BID SET JOB NO: a20-001 FCR NO: DESIGN NO: AS-BUILT BY: DATE CONTRACT NO:

CCTV POLE MOUNTED

16 FEET

CLOCKS

PROJECTOR

CLOCK/SPEAKER

90 INCHES

90 INCHES, GYM OR COMMONS - 120"

ABOVE WHITEBOARD, TO BE COORDINATED









	MECHANICAL EQUIPMENT CONNECTION SCHEDULE											
	MAXIMUM RATINGS (CU) FEEDER CIRCUIT# DISCONNECT REMARKS						REMARKS					
NAME	DESCRIPTION	LOCATION	KVA	FLA	MCA	MOCF		#12 EACH PHASE, NEUTRAL, PLUS GROUND		BY	DESCRIPTION	
ENC-1	AQUA-SHIELD BFPA-05	HEADER ENCLOSURE	1.50	12.5	15.6	20	120 1		4A-16	•	GFCI 20-5R	

1.50

## **EQUIPMENT CONNECTION SCHEDULE NOTES:**

- 1. VERIFY VOLTAGE, PHASE, FLA/MCA OF EACH CONNECTION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. NOTIFY ARCHITECT/ENGINEER WHEN SCHEDULED SUPPLY WILL NOT MEET NEC REQUIREMENTS.
- 2. OUTLETS, DISCONNECTS, CONTROLLERS, AND EQUIPMENT CONNECTIONS FOR ROOF TOP AND OTHER OUTDOOR EQUIPMENT SHALL BE WEATHER PROOF.
- 3. LOCATION OF OUTLETS, DISCONNECTS, CONTROL DEVICES, AND EQUIPMENT CONNECTIONS ARE DIAGRAMMATIC AND TO BE LOCATED IN FIELD BY THE CONTRACTOR AS APPROVED BY THE ENGINEER. UNLESS OTHERWISE INDICATED ON PLANS, INSTALL SCHEDULED DISCONNECTS AND CONTROL DEVICES IN SIGHT OF EQUIPMENT. ARRANGE WIRING AND EQUIPMENT TO AVOID INTERFERENCE WITH OTHER WORK AND TO MAXIMIZE ACCESSIBILITY FOR MAINTENANCE AND REPAIRS.
- 4. COORDINATE WITH THE OTHER INSTALLING CONTRACTORS TO ENSURE NEC REQUIRED ACCESS TO DISCONNECTS IS PROVIDED FOR EACH PIECE OF EQUIPMENT.
- 6. WIRING BETWEEN EQUIPMENT DISCONNECT AND POINT OF CONNECTION SHALL COMPLY WITH NEC BASED ON EQUIPMENT NAMEPLATE RATING EXCEPT MINIMUM BRANCH CIRCUIT RATING SHALL BE 20 AMPERES.
- 7. SIZE OF DISCONNECT SWITCH AND MOTOR STARTER SHALL BE SIZED TO COMPLY WITH NEC REQUIREMENTS. WHERE INDICATED MOTOR CONTROL IS NOT LOCATED IN SIGHT OF MOTOR AS DEFINED BY NEC, PROVIDE ADDITIONAL DISCONNECTING MEANS TO COMPLY WITH NEC 430.102.
- 8. WIRING SIZES ARE BASED ON 60 DEGREE C. FOR AMPACITIES 100 AMPERES AND LESS. FOR FEEDERS LESS THAN 100 FEET IN LENGTH, CONDUCTOR SIZES MAY BE SELECTED BASED ON 75 DEGREE C. WHERE EQUIPMENT INSTALLED IS LABELED FOR 75 DEGREE C. WIRING.
- 9. SCHEDULE LEGEND: = FURNISH AND INSTALL NEW UNDER DIVISION 26
  - O = INSTALL UNDER DIVISION 26; FURNISHED WITH EQUIPMENT OR BY OTHERS.
  - X = FURNISH AND INSTALL BY OTHERS (NOT DIVISION 26)
  - \* = EXISTING, RELOCATED EQUIPMENT

	LUMINAIRE SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER	LAMP	VOLTAGE	INPUT WATTS	BALLAST/ DRIVER	REMARKS	
SM1	MID BAY SURFACE MOUNT LED FIXTURE, DIE-CAST ALUMINUM HOUSING, HIGH OUTPUT, 3000K	LEDLUMINA BS400LED SERIES	LED 3000K 6880 LUMENS	120	60	0-10V	WET LOCATION RATED	
WM1	RECTANGULAR SHAPED LED FLOODLIGHT, TRUNNION MOUNT, BRONZE FINISH, 3000K	RAB FFLED SERIES	LED 3000K 5518 LUMENS	120	39		WET LOCATION RATED	
WM2	COMPACT LED FIXTURE DIE-CAST ALUMINUM HOUSING WITH POWDER COAT FINISH, INTEGRAL DRIVER, TYPE3 DISTRIBUTION, WALL MOUNT	HUBBEL LNC2 SERIES	LED 3000K 3100 LUMENS	120	30		WET LOCATION RATED	

### **LUMINAIRE SCHEDULE NOTES:**

- 1. LED LUMENS ARE BASED ON TOTAL ILLUMINATION OUTPUT OF THE LUMINAIRE UNLESS OTHERWISE INDICATED.
- 2. VERIFY STEM, CHAIN, OR CABLE LENGTH WITH FIXTURE VENDOR AS REQUIRED TO ACCOMMODATE THE INDICATED MOUNTING HEIGHT MEASURED TO BOTTOM OF FIXTURE.
- 3. LED DRIVERS FOR LOW VOLTAGE DIMMING SHALL BE 0-10 VOLTS [ DIGITAL SIGNAL DIMMING INTERFACE TYPE ] UNLESS OTHERWIS INDICATED.
- 4. LOW VOLTAGE DIMMING DRIVERS FOR LUMINAIRES THAT HAVE DAYLIGHT RESPONSIVE CONTROL SHALL DIM TO COMPLETELY OFF.
- 5. LED DRIVERS FOR LINE VOLTAGE DIMMING SHALL BE REVERSE PHASE ELECTRONIC LOW VOLTAGE (ELV) UNLESS OTHERWISE APPROVED BY THE ARCHITECT/ENGINEER.

Hultz Z BHU

Phone: (253) 383-3257 Fax: (253) 383-3283 BID SET 3-11-2022 general@hultzbhu.com Job Number: 20-165

REGION NO. PROJECT ARCHITECT: LC 05/14/2021 30% PROGRESS SET 06/18/2021 60% PROGRESS SET DRAWN BY: HBHU FEDERAL AND PROJECT NO. 08/02/2021 PERMIT SET REVIEWED BY: REVIEWED BY: 03/11/2022 BID SET JOB NO: a20-001 FCR NO: DESIGN NO: AS-BUILT BY: DATE CONTRACT NO:







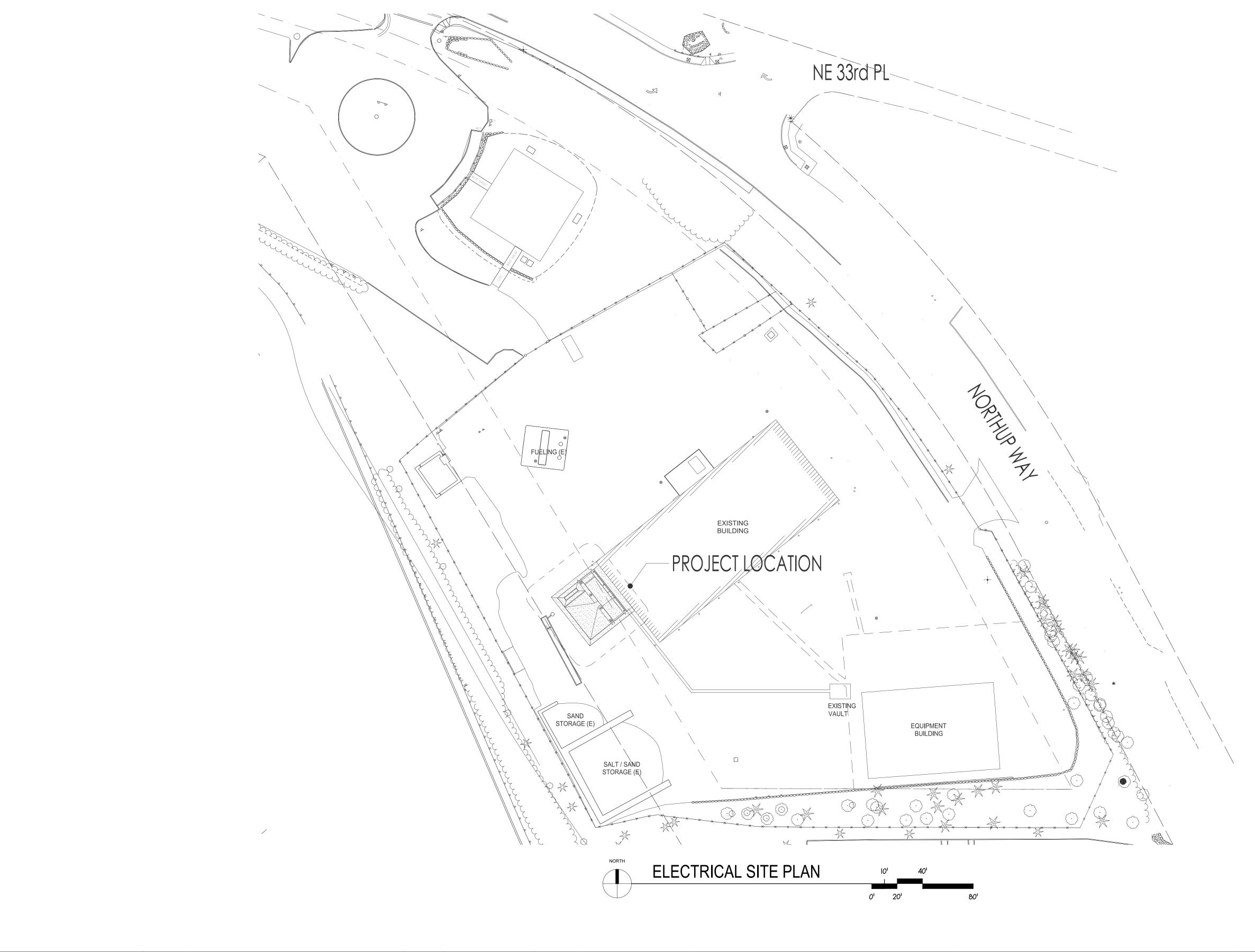


NORTHRUP PREWASH RETROFIT NPDES - NWR PERMIT SET

ELECTRICAL SCHEDULES

SHEETS

E002



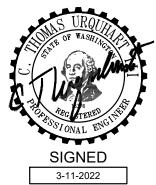
Hultz 3 BHU

E101

1111 Fawcett Ave, Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 20-165

REGION NO. 05/14/2021 30% PROGRESS SET PROJECT ARCHITECT: LC DRAWN BY: HBHU 06/18/2021 60% PROGRESS SET FEDERAL AND PROJECT NO. 08/02/2021 PERMIT SET REVIEWED BY: REVIEWED BY: 03/11/2022 BID SET JOB NO: a20-001 FCR NO: AS-BUILT BY: DESIGN NO:

DATE



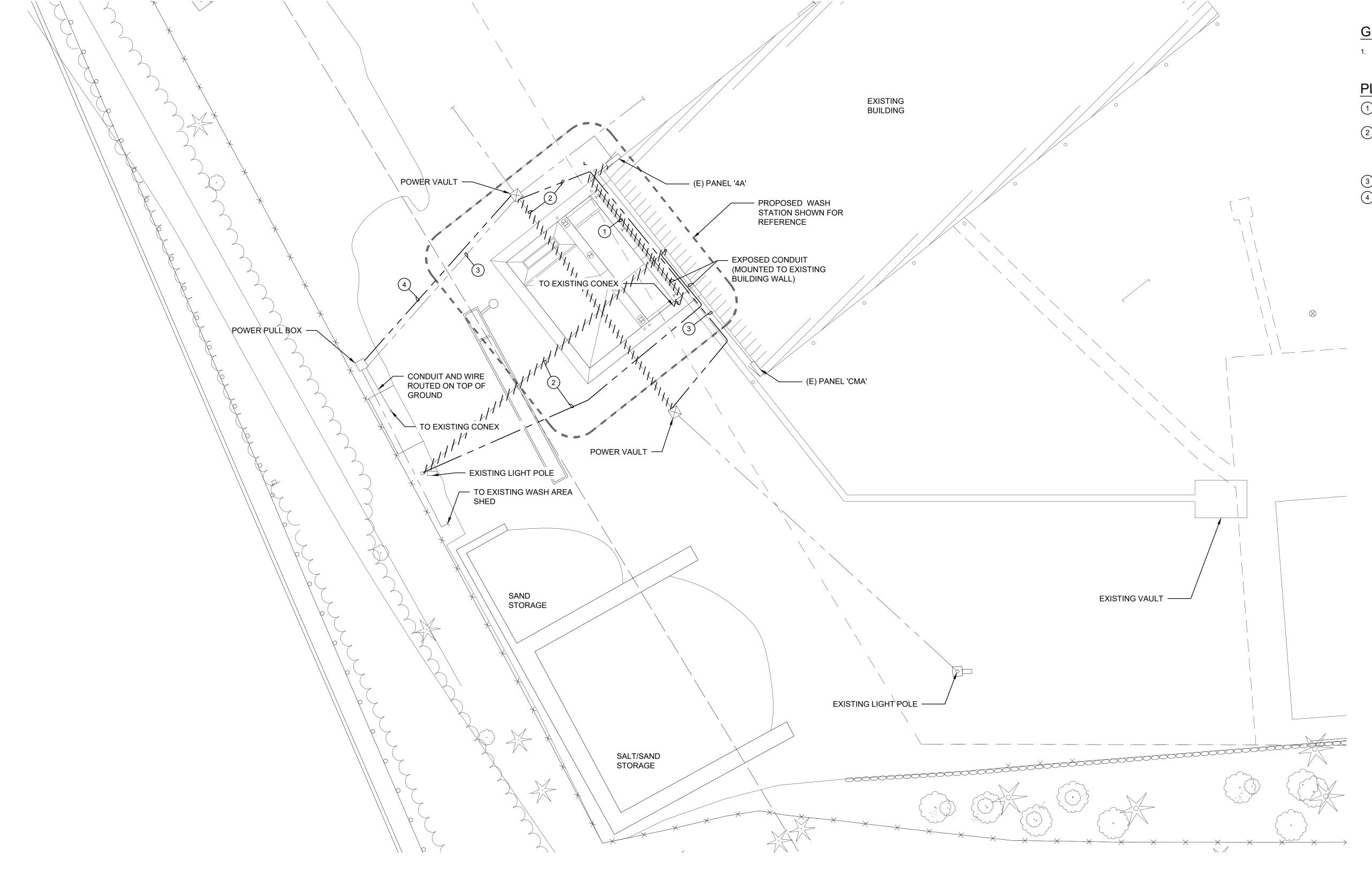
CONTRACT NO:







NORTHRUP PREWASH RETROFIT NPDES - NWR PERMIT SET
ELECTRICAL SITE PLAN



## **GENERAL NOTES:**

1. SEE ELECTRICAL NOTES ON SHEET E001.

## PLAN NOTES:

- CONDUIT AND WIRING FOR EXISTING CONEX TO BE REMOVED BACK TO PANEL 4A, CIRCUIT BREAKER 9 AND 11.
- CONDUIT AND WIRING TO BE RELOCATED AS NOT TO INTERFERE WITH CIVIL WORK BEING DONE IN PROJECT AREA. EXTEND CIRCUIT WIRING FROM NEAREST DEVICE OR TERMINATION POINT AS REQUIRED. FOR BIDDING PURPOSES ASSUME 3/4" CONDUIT WITH THREE (3) 10 AWG WIRES WITH ONE (1) 10 AWG GROUND.
- 3 CONDUIT AND WIRING TO REMAIN IN PLACE.
- 4 SUPPLY AND INSTALL NEW 1" CONDUIT AND (2) #6 WIRE WITH #8 GROUND TO FROM PANEL 4A BREAKER 9, 11 TO EXISTING ELECTRICAL PULL BOX. COIL 50 FT OF WIRE AND TERMINATE WITH WIRE NUT AND TAPE IN PULL BOX FOR FUTURE USE.

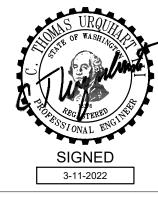


Phone: (253) 383-3257 Fax: (253) 383-3283 BID SET 3-11-2022 general@hultzbhu.com Job Number: 20-165

E102

Hultz 3 BHU

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RAMING	PROJECT ARCHITECT: LC	05/14/2021 30% PROGRESS SET	REGION NO.	STATE:	
65\DF	DRAWN BY: HBHU	06/18/2021 60% PROGRESS SET	FEDERAL AND	PROJECT NO.	
5\20-1	REVIEWED BY:	08/02/2021 PERMIT SET			
JOB6	REVIEWED BY:	03/11/2022 BID SET			
\2020			JOB NO:	a20-001	
'ATH:I			FCR NO:		
MG P	AS-BUILT BY:		DESIGN NO:		
		DATE	CONTRACT NO:		





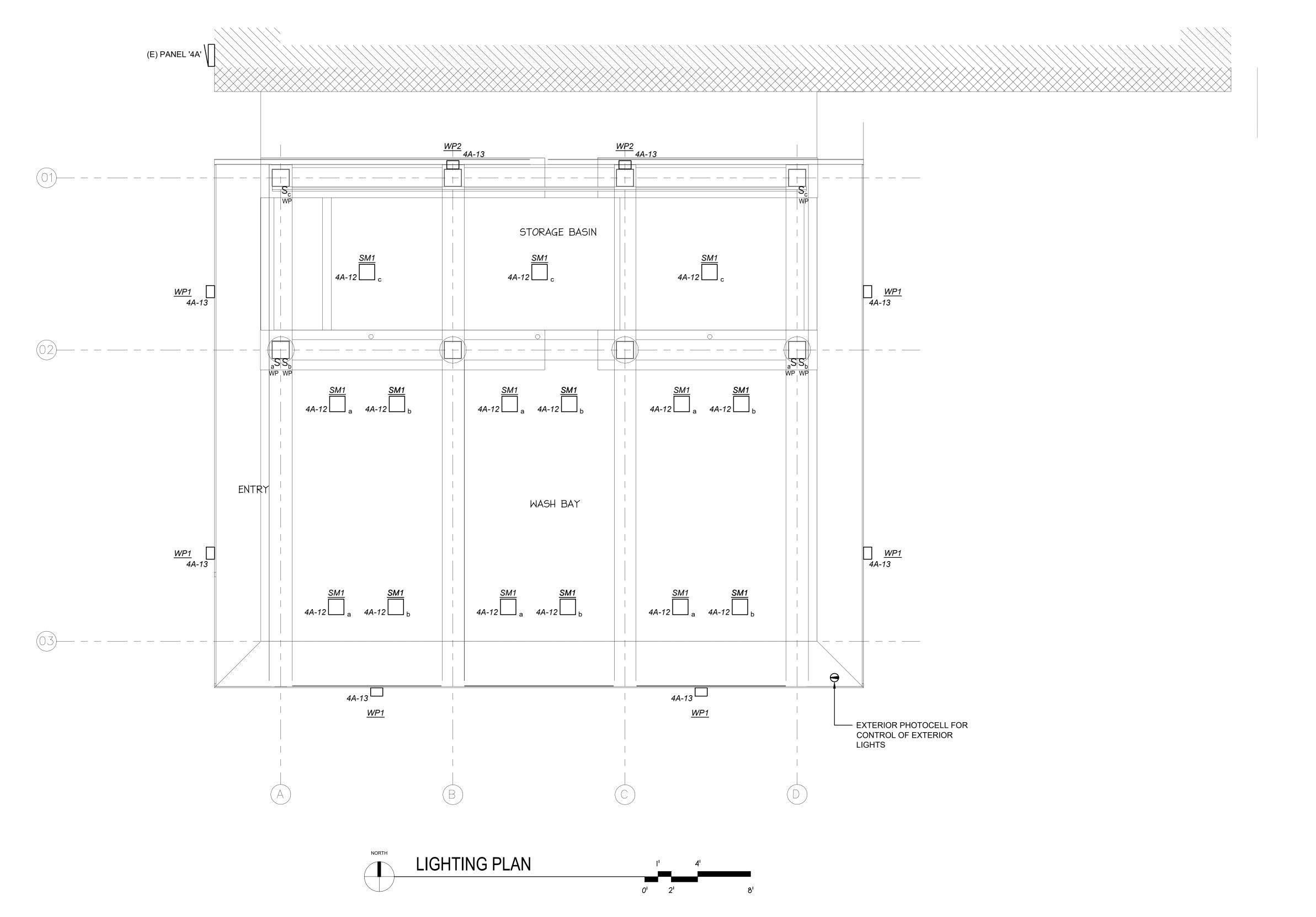


NORTHRUP PREWASH
RETROFIT NPDES - NWR
PERMIT SET

	OF
ELECTRICAL DEMOLITION SITE PLAN	
	SHE

## **GENERAL NOTES:**

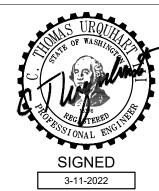
1. SEE ELECTRICAL NOTES ON SHEET E001.



HULTZ BHU

## Tacoma, WA 98402
| Phone: (253) 383-3257 | Fax: (253) 383-3283
| General@hultzbhu.com | Job Number: 20-165

PROJECT ARCHITECT: LC	05/14/2021	30% PROGRESS SET			REGION NO.	STATE:	
DRAWN BY: HBHU	06/18/2021	60% PROGRESS SET			FEDERAL AND	PROJECT NO.	
REVIEWED BY:	08/02/2021	PERMIT SET					
REVIEWED BY:	03/11/2022	BID SET					
					JOB NO:	a20-001	
					FCR NO:		
AS-BUILT BY:					DESIGN NO:		
	DATE				CONTRACT NO:		
	DRAWN BY: HBHU REVIEWED BY: REVIEWED BY:	DRAWN BY: HBHU 06/18/2021 REVIEWED BY: 08/02/2021 REVIEWED BY: 03/11/2022  AS-BUILT BY:	DRAWN BY:         HBHU         06/18/2021         60% PROGRESS SET           REVIEWED BY:         08/02/2021         PERMIT SET           REVIEWED BY:         03/11/2022         BID SET           AS-BUILT BY:	DRAWN BY:         HBHU         06/18/2021         60% PROGRESS SET	DRAWN BY: HBHU         06/18/2021         60% PROGRESS SET	DRAWN BY: HBHU         06/18/2021 60% PROGRESS SET         FEDERAL AND           REVIEWED BY:         08/02/2021 PERMIT SET         SID SET           REVIEWED BY:         03/11/2022 BID SET         JOB NO:           SET         FCR NO:           AS-BUILT BY:         DESIGN NO:	DRAWN BY: HBHU         06/18/2021 60% PROGRESS SET         FEDERAL AND PROJECT NO.           REVIEWED BY:         08/02/2021 PERMIT SET         5           REVIEWED BY:         03/11/2022 BID SET         5           JOB NO: a20-001         420-001           AS-BUILT BY:         5









NORTHRUP PREWASH	
RETROFIT NPDES - NWR	
PERMIT SET	

LIGHTING PLANS

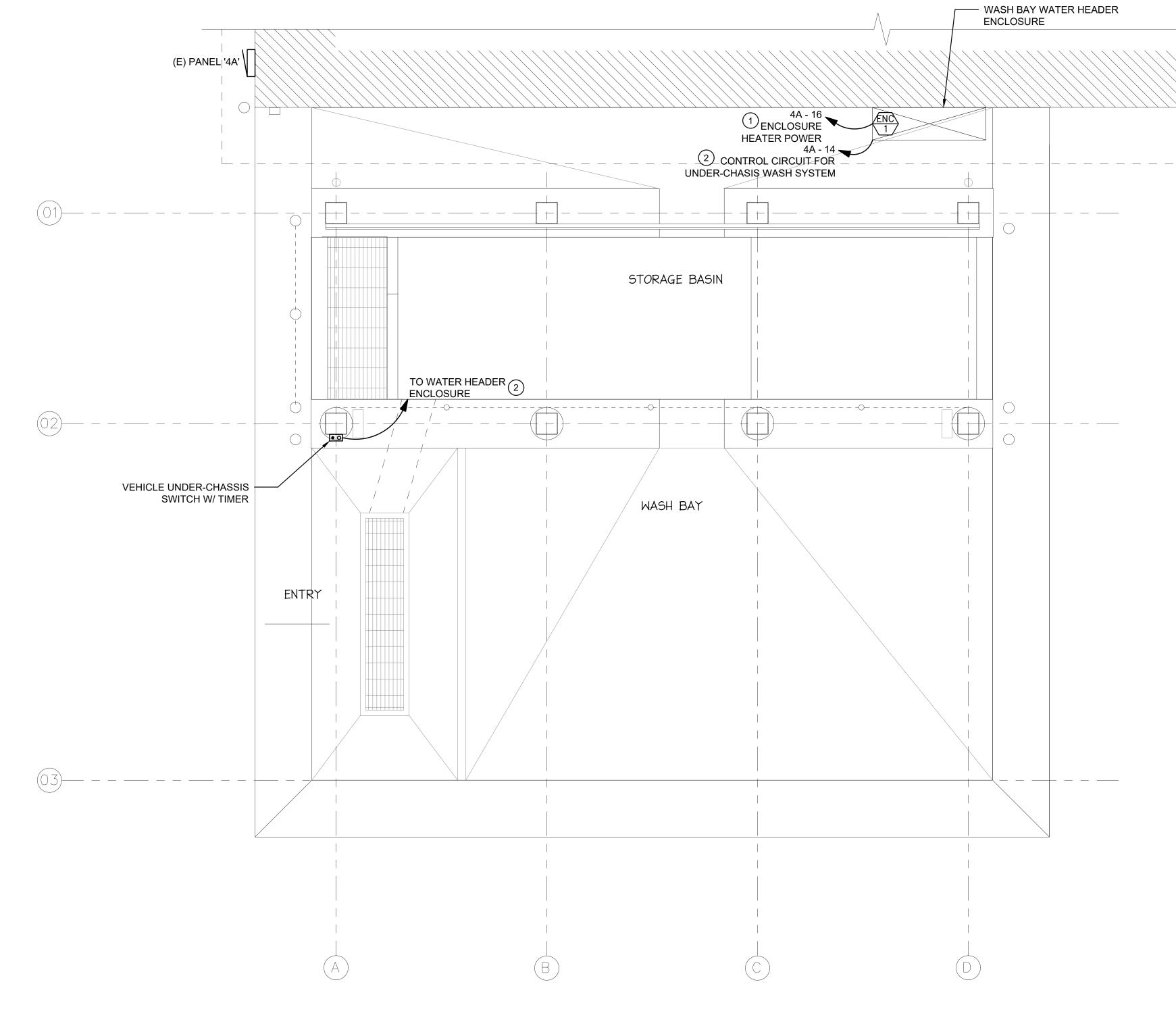
E201



1. SEE ELECTRICAL NOTES ON SHEET E001.

## PLAN NOTES:

- PROVIDE GFCI 20-5R WITH WEATHERPROOF COVER, CONDUIT AND WIRING FOR WASH BAY WATER HEADER ENCLOSURE HEATER.
- PROVIDE CONDUIT AND WIRING FOR UNDER CHASSIS WASH SYSTEM LOCATED IN HEADER ENCLOSURE AND REMOTE SWITCH WITH TIMER.

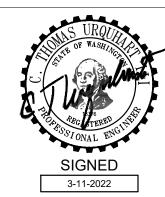


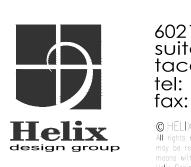
POWER PLAN

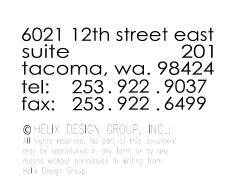
HULTZ & BHU

E301

G.						
SAMING	PROJECT ARCHITECT: LC	05/14/2021 30% PROGRESS SET		REGION NO.	STATE:	
65\DR	DRAWN BY: HBHU	06/18/2021 60% PROGRESS SET		FEDERAL AND	PROJECT NO.	
5\20-1	REVIEWED BY:	08/02/2021 PERMIT SET				
70B6	REVIEWED BY:	03/11/2022 BID SET				
\2020				JOB NO:	a20-001	
ATH:I:				FCR NO:		
MG P	AS-BUILT BY:			DESIGN NO:		
		DATE		CONTRACT NO:		





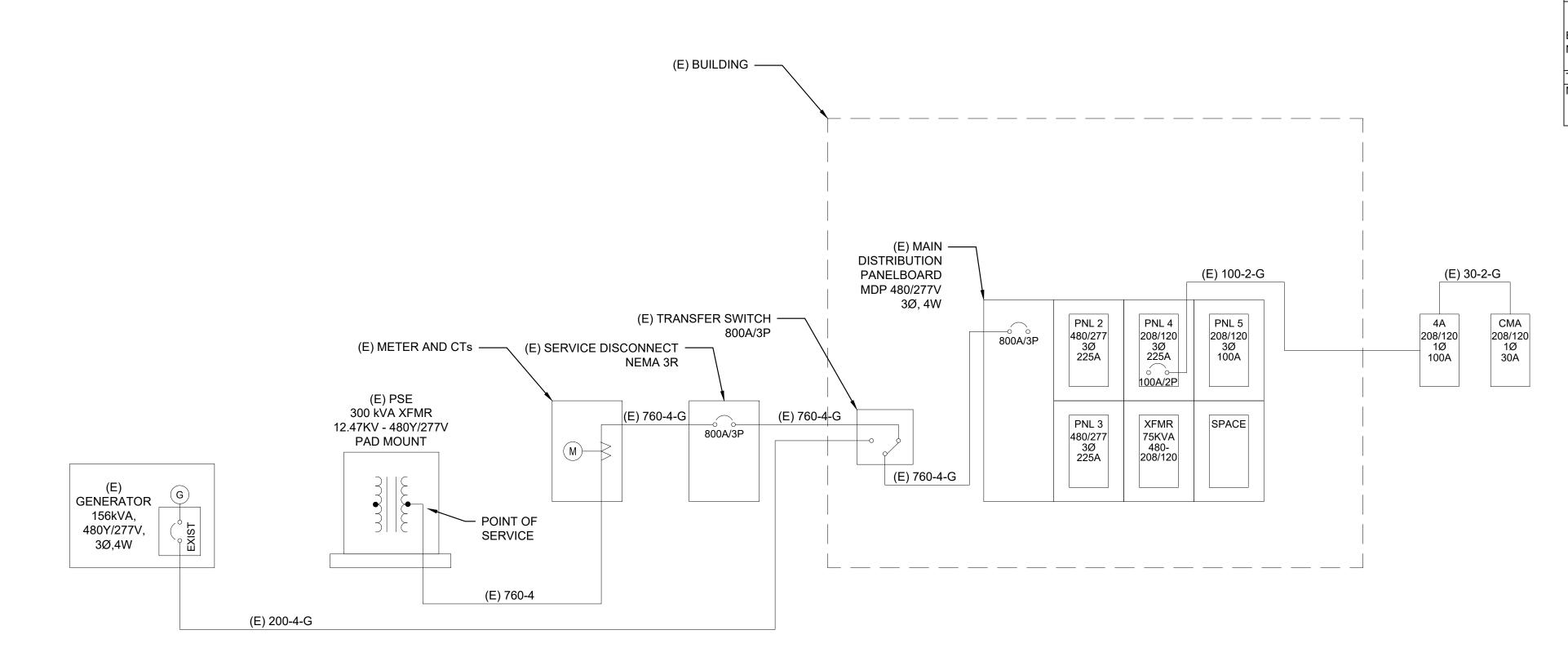


	Washington State
	<b>Department of Transportation</b>
	<b>HQ CAPITAL FACILITIES</b>

NORTHRUP PREWASH
RETROFIT NPDES - NWR
PERMIT SET

EXISTING SINGLE PHASE PANEL SCHEDULE											
4A(EXISTING)	VO	LTAGE:	208	/120	3W		RATING:	100	Α	MAIN:	LUG
GRID	ENCLOSURE						ACC	ESSOF	RIES		AIC ASSEMBLY
SECTION 1 OF1			FLUSH				ISOLAT				SERVICE RATED
LOCATION:		×	(SURFA	CE			SPD				X SERIES RATED
		×	NEMA	TYPE 1			200% N	IEUTR.	AL		10K
			NEMA	TYPE 3	R.		FEED 7	THRU L	.UGS		25K
				TYPE 1	2	_	DOUBL				42K
DESCRIPTION	*	VA	BKR	CKT	Α		С	CKT	BKR	VA	* DESCRIPTION
Washdown Shed		750	20/2	1	3246		1	2	30/2	2496	CMA Panel
		750		3			3246	4		2496	
Pole Light		250	20/2	5	500			6	20/1	250	Flare Storage
		250	50/0	7	0000		750	8	20/2	500	Boat Shed
Conex & Storage Shed		2500	50/2	9	3000		0500	10		500	-
SDACE		2500		11	0		2500	12			SPACE
SPACE SPACE				15	0			14 16			SPACE SPACE
BREAKER CODE: <b>A</b> =AFCI, <b>G</b> =GFCI, <b>I</b>	N-6/4/1	TCHED	NELITO		6746		0 6496	VA	4A(EXI	ETING)	SPACE
BREAKER CODE. A-AFCI, G-GFCI, I	<b>1</b> -3 VVI	ICHED	NEOTRA	7L, <b>3</b> -0	56.2		54.1	J	PHASI	,	
		KVA			KVA		1 0-1.1		L LOAE		AMPS
LIGHTING		0.5	Х	125%	0.6				ECTED		63.7
RECEPTACLES		0.0	X	100%	0.0				ULATE		64.3
RECEPTACLES OVER 10K			X	50%							
MOTORS			Χ	100%		REMAI	RKS				
LARGEST MOTOR			Χ	125%		FED FI	ROM MA	IN DIS	TRIBUIT	ION PAN	NEL BOARD, PANEL 4 CIR 17,19
KITCHEN			Χ	100%							
NONCOINCIDENT			Χ	0%							
REMAINDER		12.7	Х	100%	12.7						
							LIGHT	LINE V	VEIGHT	EQUAL	S EXISTING
							HEAVY	LINE	WEIGH	Γ EQUAL	S NEW

REVISED				SING	LE P	PHASE PANEL SCHEDULE							
4A(REVISED)	VO	LTAGE:	208/	120	3W	W RATING: 100 A MAIN:						LUG	
GRID	ENCLOSURE			E		ACCE	SSOF	RIES			AIC ASSEMBLY		
SECTION 1 OF1	FLUSH							ROUND			SERVICE RATED		
LOCATION:		Х	SURFA	CE		5	SPD				Х	SERIES RATED	
		Х	NEMA	TYPE 1	1	2	200% N	IEUTR/	AL			10K	
			NEMA	TYPE 3	3R	F	EED T	HRU L	.UGS			25K	
			NEMA	TYPE 1	12		DOUBL	E LUG	iS			42K	
DESCRIPTION	*	VA	BKR	CKT	Α		С	CKT	BKR	VA	*	DESCRIPTION	
Washdown Shed		750	20/2	1	3246			2	30/2	2496		CMA Panel	
-		750		3			3246	4		2496		-	
Pole Light		250	20/2	5	500			6	20/1	250		Flare Storage	
-		250		7			750	8	20/2	500		Boat Shed	
Conex & Storage Shed		2500	50/2	9	3000			10		500		-	
-		2500		11			3270	12	20/1*	770		Prewash - Interior Lights	
Prewash - Exterior Lights		300	20/1*	13	400			14	20/1*	100		Prewash - Controls	
SPACE				15			1500		20/1*	1500		Prewash - Heater	
BREAKER CODE: A=AFCI, G=GFCI, N	=SWI	TCHED	NEUTRA	AL, <b>S</b> =5			8766	I	4A(REV	,			
					59.6		73.1		PHASE				
		KVA			KVA				L LOAD	KVA		AMPS	
LIGHTING		1.6	Х	125%	2.0				IECTED	15.9		76.5	
RECEPTACLES			Х	100%				CALC	ULATED	16.3		78.4	
RECEPTACLES OVER 10K			Х	50%									
MOTORS			Х	100%		REMARK							
LARGEST MOTOR			Х	125%							NEL	BOARD, PANEL 4 CIR 17,19	
KITCHEN			X	100%		*	' INST	ALL N	IEW BRI	EAKER			
NONCOINCIDENT			Х	0%									
REMAINDER		14.3	Χ	100%	14.3								
						ı	LIGHT	LINE V	VEIGHT	EQUAL	S F	XISTING	
									WEIGHT	-			
						<u> </u>						=====	



## FEEDER SCHEDULE (BASED ON CU CONDUCTORS)

CALLOUT X-Y-Z Y = CONFIGURATION CODE X = NOMINAL CIRCUIT AMPACITY 1N = 1W + NEUT 1 = 1PH 2W EG. 225 = 225 AMPERES 2 = 1PH 3W

CONDUCTOR(S) ARE INCLUDED G = EQUIPMENT GROUND IG = ISOLATED GROUND GT = SEPARATELY DERIVED GOUND

Z = INDICATES IF GROUND

3 = 3PH 3W 4 = 3PH 4W

REMARKS

DESCRIPTION CALLOUT 30-2-G 3/4"C-3#10 +#10G 100-2-G 2#C-3#1 +#6G 760-4

(2) 3.5"C-4#500 IN PARALLEL 760-4-G (2) 3.5" RGS-4#500 IN PARALLEL

REVISED LOAD		
	1(	00A 208/120V, 1PH, 3W
	KVA	AMPS NOTES
PANEL 4A		
EXISTING	13.4	64.3
LOAD ADDED		
LTG ADDED (125%)	1.3	6.4
WASH CONTROLS	0.1	0.5
1.5KW HEATER	1.5	7.2
TOTAL LOAD ADDED	2.9	14.1
TOTAL OVERALL LOAD	16.3	78.4

FAULT CURRENT CALCULATION SUMMARY				
	AVAILABLE			
DESCRIPTION	SCA			
480/277 VOLT				
300 kVA TRANSFORMER	17184			
METER & CT CABINET	16900			
SERVICE DISCONNECT	16641			
TRANSFER SWITCH	16407			
MDP	16185			
208/120 VOLT				
PANEL 4	15722			
PANEL 4A	8492			

REVISED LOAD	SUMMARY	- EXISTING METER		
800A 480/277V, 3PH, 4W				
	KVA	AMPS NOTES		
EXISTING DEMAND	99.8	120.1		
NEW LOAD ADDED	2.9	3.5 PREWASH ADDITION		
TOTAL OVERALL LOAD	102.8	123.6		
NOTES:				
LESS THAN 5% LOAD A	DDED.			

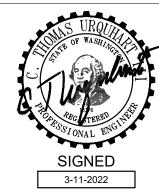
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1111 Fawcett Ave, Suite 100 Tacoma, WA 98402 Phone: (253) 383-3257 Fax: (253) 383-3283 BID SET 3-11-2022 general@hultzbhu.com Job Number: 20-165

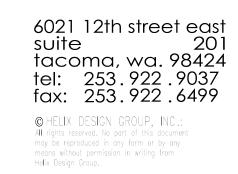
E501

ONE-LINE DIAGRAM SCALE: 1/4"=1'-0"

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ZAMIN	PROJECT ARCHITECT: LC	05/14/2021	30% PROGRESS SET	REGION NO.	STATE:	
50	DRAWN BY: HBHU	06/18/2021	60% PROGRESS SET	FEDERAL AND PROJECT NO.		
-07/0	REVIEWED BY:	08/02/2021	PERMIT SET			
5	REVIEWED BY:	03/11/2022	BID SET			1
07070				JOB NO:	a20-001	(
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Ž T	AS-BUILT BY:			DESIGN NO:		
1		DATE		CONTRACT NO:		









NORTHRUP PREWASH	
RETROFIT NPDES - NWR	
PERMIT SET	

ONE-LINE RISER DIAGRAM